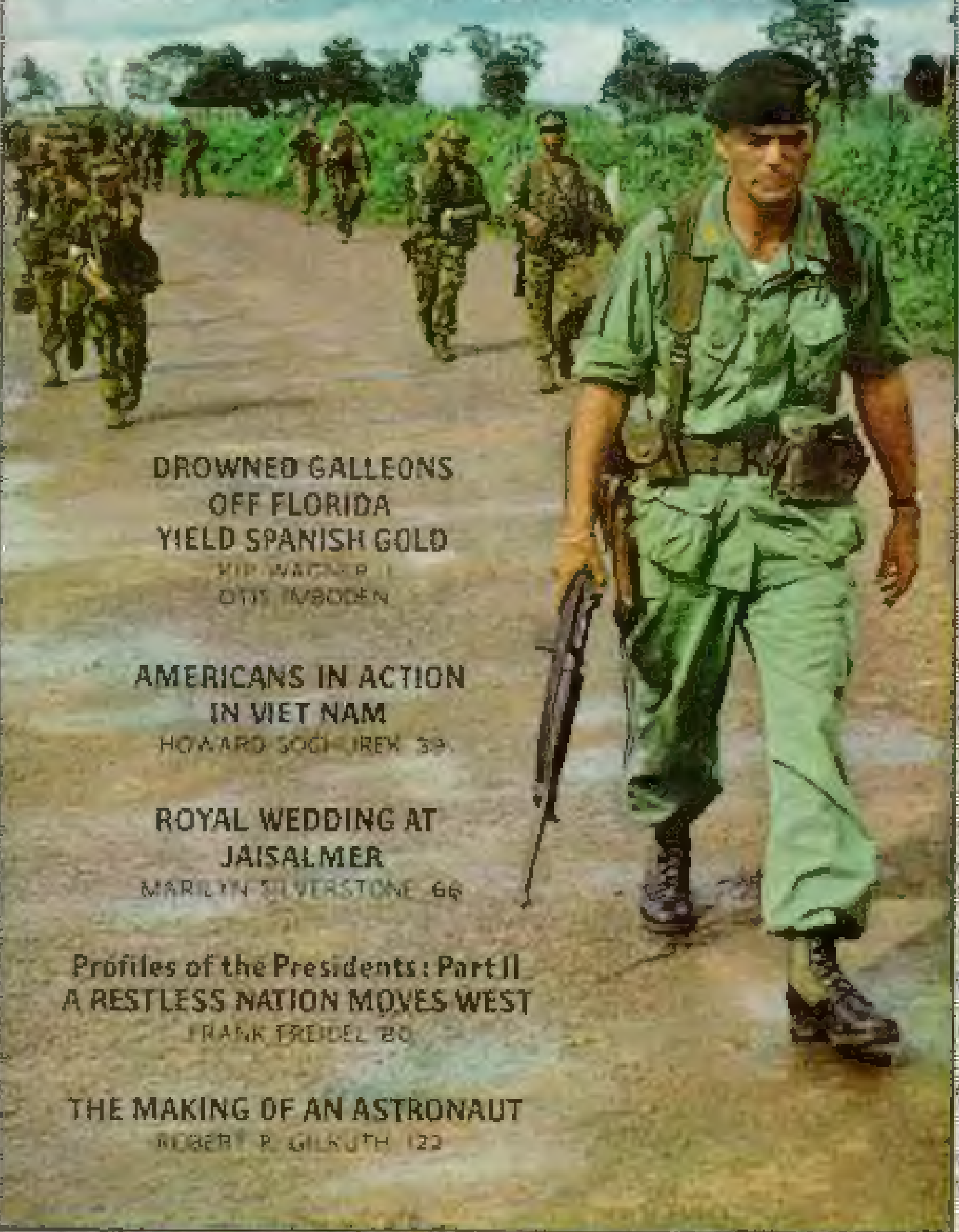


VOL. 127, NO. 1

JANUARY, 1965

# NATIONAL GEOGRAPHIC



DROWNED GALLEONS  
OFF FLORIDA  
YIELD SPANISH GOLD  
KIP WAGNER 11  
OTTO MADDEN

AMERICANS IN ACTION  
IN VIET NAM  
HOWARD SOCHOWSKI 39

ROYAL WEDDING AT  
JAISALMER  
MARILYN SILVERSTONE 66

Profiles of the Presidents: Part II  
A RESTLESS NATION MOVES WEST  
FRANK FREIDEL 70

THE MAKING OF AN ASTRONAUT  
ROBERT P. GILKUTH 123

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**SUNKEN TREASURE:** What made these words hold! I suppose there is hardly a man—or woman—alive who has not thrilled to stories of silver pieces of eight, of drowned Spanish gold, of pirate treasure. Those of us who grew up on *Treasure Island* still hear, echoing faintly across the years, the screeching cry of Long John Silver's parrot: "Pieces of eight! Pieces of eight!"

Romantics like myself take leave of these childhood dreams reluctantly, telling ourselves that such tales have little basis in fact.

In a recent book on sunken ships I read: "In today's world, 'pieces of eight' and silver bullion aren't likely to be found outside the pages of adventure books. Nevertheless it is still true that the coasts of the United States . . . are dotted with sunken vessels. . . ."

It is indeed still true, and I found that not all the pieces of eight and silver bullion lie in "the pages of adventure books." In Florida waters my associates and I have recovered more than a million dollars in treasure from the rotted remnants of Spanish Plate Fleet ships lost 250 years ago. Our finds have included heavy ingots of silver and gold, magnificent jewelry, gold coins in mint condition, silver dishes, delicate K'ang-hsi Chinese porcelain, thousands of pieces of eight, and several beautiful chains of purest gold.

#### **Hurricane Buries Familiar Beach**

One of nature's most powerful forces, a hurricane, sent these richly laden Spanish galleons to the bottom. And, appropriately, my own improbable tale begins with the aftermath of a hurricane 10 years ago.

On a hot still afternoon, after two days of screaming winds, I stood on the low sand bluffs near Sebastian Inlet north of Vero Beach, on Florida's east coast. I was bewildered. The familiar foreshore along which I had beachcombed for so long had been completely altered.

Cloud debris littered the sky to the northeast. The Atlantic heaved lumpily against the

**The Author:** Housebuilder turned treasure hunter, Kip Wagner directs a team probing sands and shallows of Florida's east coast. From the remains of the Spanish Plate Fleet that sank in a hurricane in 1713, he and his divers have recovered riches worth more than a million dollars. These golden *8-cruado* pieces, also known as doubloons, bear the shield of Spain's Philip V on one side, a cross on the other.



January  
1965

## **NATIONAL GEOGRAPHIC**

THE NATIONAL GEOGRAPHIC SOCIETY, INC., 1201 16TH ST., N.W.  
WASHINGTON 25, D.C. 20036  
PUBLISHED MONTHLY EXCEPT TWICE A YEAR IN NOVEMBER AND DECEMBER

# **Drowned Galleons Yield Spanish Gold**

*Adventurous divers in Florida  
bring up the 20th century's  
richest find of sunken treasure*

**By KIP WAGNER**

*Photographs by OTIS IMBODEN*  
National Geographic Staff



INGOTS OF GOLD, gleaming doubloons, and delicate Chinese porcelain stand beside the sea that hid them for two-and-a-half centuries. Three ships and nearby beaches yielded the treasures; five unexcavated vessels may hold other wonders. These relics lay under 15 to 30 feet of water near Sebastian Inlet, 15 miles north of present-day Vero Beach, where the richly laden fleet came to grief.

*Illustration by Robert R. Taylor, courtesy of the U.S. Navy*







horizon, and the dull green surf broke listlessly at my feet. Fifteen feet of the bluff overlooking the beach had washed away, and with it the secret path by which I had come here for the past six months.

As I walked along the water's edge, kicking at bits of purple and green seaweed, something too bright to be a seashell gleamed through a welter of wrack and sand. I picked it up. It was a polygonal piece of silver, stamped with a cross and the arms of Spain. I had found a piece of eight.

The legendary piece of eight of pirate stories is a coin about the size of a silver dollar. It was worth eight *reales*, hence its name. British colonials called it a cob—a word meaning lump—because of its irregular outline.

This storm had a drastic effect on my life. From a rather curious antiquarian, I turned into a highly organized fisher of Spanish treasure. At that time I little dreamed that

my new interest would lead to the greatest find of sunken treasure since 1687, when William Phips sailed away to England with a million dollars in silver bars and coin, to be knighted and later made Governor of Massachusetts. Phips reaped his fabulous harvest from a galleon that had gone down in 1643 on the Silver Bank, north of Hispaniola.

#### Storms Strew Beach With Silver

Severe northeast storms, as well as hurricanes, had occasionally thrown silver coins up on the beach in past years. After a lively northeaster, I had found as many as five. They scarcely made conversation along this coast, where similar finds had long been known.

The harvest was scanty but dependable. I had about forty pieces of silver when the hurricane changed things. Now my money beach lay under a foot of sand and terraced flotsam from the offshore reefs. No smooth



beach, only matted debris. But what of the coin I had just found? Had the storm bared a new trove offshore? I looked at the pounding sea.

One thing I had noticed about the coins I picked up: none was dated later than 1715. A friend told me of a flotilla of Spanish ships carrying \$14,000,000 in treasure that had been driven on reef and shore by a hurricane in the vicinity of Cape Canaveral (now Cape Kennedy) in the year 1715. Thus I first heard of one of the greatest disasters to befall the annual Plate, or Silver, Fleet sent out by Spain to bring home the wealth of the Indies.

John Taylor, a captain's clerk in one of the guard ships assigned to protect William Phips during his epic salvage, described the Plate Fleet system in flowing language:

"The King of Spain, whose dominions are now extended from the east to the west, whose kingdoms are full one third part of the known world, whose treasures in his western domin-

ions are rich and durable mines of gold and silver . . . without bottom or a seeming end, from whence flows the wealth of Spain, by which the pomp, state, frontiers of that kingdom are maintained and defended, yearly sends his . . . mighty ships of Spain into America, which moving road bring him home his annual treasure of gold and silver. . . ."

Spain sent two fleets annually to the New World. One, the Galeones de Tierra Firme, or mainland fleet, sailed to New Granada—present-day Colombia—where it picked up gold, emeralds, and pearls at Cartagena, and later silver from Peru's fabled mines at Potosí on the Panamanian Isthmus. The other, the Flota, or fleet, of New Spain, sailed to Veracruz, on the Gulf Coast of Mexico. There it took aboard silver, cochineal and indigo dyes, as well as goods of the Orient—porcelains and silk—which came to Acapulco, on Mexico's Pacific Coast, in the annual galleon



Beside the heaving Atlantic, a treasure seeker searches the beach with a mine detector. The apparatus emits a high-pitched whine over metal objects as small as fishhooks; it has pinpointed ships' spikes, cannon balls, cutlasses, and coins by the hundreds.

"My first investment in salvage equipment was a \$15 surplus military mine detector," says author Wagner, "and I still use it, especially after storms have reshaped the sands. Usually my only companions are formations of pelicans that fly over, wheel, and look down at me with seeming perplexity."

Silver pieces of eight, called cobs, look like bits of green stone following a 250-year bath in brine. Coin at left shines again after hydrochloric acid dissolved the thin coating formed by the action of salt water on copper, a hardening agent in most silver coins.

PHOTOGRAPH BY JOHN WAGNER FOR N.Y.C.





Shrieking like a thousand banshees, hurricane winds shred the waves and shatter the Spanish treasure fleet. In this artist's recreation, the tropic-spawned tempest dashes the ungainly galleons on to saw-toothed reefs. Desperate crewmen climb high in the rigging while others battle giant combers in an effort to gain the safety of the shore. Ships fall apart, their backs broken, and precious cargo spills and sinks. More than a thousand souls perished, and \$14,000,000 in gold and silver vanished into the depths.

6

from Manila and then were shipped overland by mule train to Veracruz. The two fleets joined in Havana, Cuba, for the homeward voyage across the Atlantic.

A West Indies jingle warns of hurricane time: "June, too soon; July, stand by; August, come they must; September, remember; October, all over." Originally, the fleets had wintered in the Caribbean and sailed for Spain in June, so that they would be well clear of the treacherous Straits of Florida before the dreaded season. But little by little, through bureaucratic delay and difficulty in manning



the vessels, sailings came later in the year, until it was routine for the fleets to return at the height of the dangerous season of high winds.

The War of the Spanish Succession, which embroiled half of Europe before peace came in 1713, delayed the sailing of the Silver Fleets for two years. The two fleets, greatly diminished in number, had met at Havana as the "Combined Armada of 1715." In July of that year they sailed from Havana, up the Straits of Florida, riding the Gulf Stream to Cape Canaveral, whence they would strike out across the Atlantic (map, page 10).

In Seville, center of Spain's colonial trade, there stands an imposing building, the Archivo General de Indias, the richest repository of historical Spanish-American documents on earth. From these archives I obtained copies of hundreds of folios dealing with the great catastrophe of 1715.

The pilot of one of the ships, with a handful of survivors, struggled north to report to the Governor of the Spanish settlement at St. Augustine. Across the void of two-and-a-half centuries this eyewitness speaks to us:

"Captain Sebastián Méndez, pilot of the

7





ship called *Nuestra Señora del Carmen*, alias *La Holandesa*, under command of Don Antonio de Echeverz, commander of the Galleons, who before me, the notary, took the oath by God Our Lord and the sign of the cross as is customary, undertook to tell the truth, and being questioned . . . the declarant stated that he departed from Havana on the 24th day of July in company of the Galleons and the Flota, and he was lost on Wednesday the 31st, at two o'clock in the morning, because of a hurricane which came on from the east-northeast so strongly that although he has sailed the seas for many years and suffered through many tempests he has never seen another like it for violence, and his ship and all the rest were lost, some before and some after Palmar de Ays, at 28° 10' [North Latitude] . . . in an area nine leagues [27 miles] from north to south."

As I fingered transcripts of old documents, I seemed to feel Havana's hot sun on my back.

*Wednesday, July 24, 1713.* A signal gun booms from the flagship. Answering guns thunder from the arm walls of the Morro, and the fleet suddenly comes to life. Seamen jump to the capstan bars; the pawls clunk as the great iron anchors come slowly aboard. Halyards are swayed tight and the yards braced round. The combined fleet of Gen. Don Juan Esteban de Uchilla and Gen. Don Antonio de Echeverz is under way.

A handsome sight, these 11 vessels, as they heel to the wind in the pull of the deep blue Gulf Stream. The high-pooped vessels roll up past the Keys under a cloudless sky.

*Monday, July 29.* Seamen look distrustfully at the sky. The sun still shines, but there is a slight haze. The heavy galleons roll in the long swell of a glassy sea. Under their lee are the sharp-toothed reefs and treacherous shoals of the low Florida coast.

*Tuesday, July 30.* By noon the wind dies.





"Treasure fever had me in its grip," says the author, "when I first saw this 1724 chart of east Florida by English cartographer Bernard Romans." On his chart, Romans noted: "Opposite this River, perished, the Admiral, commanding the Plate Fleet 1715..." The river was Sebastian Creek, and in a cove near its confluence with the Indian River, Mr. Wagner found so many old coins washed ashore that he called it "my money beach." "Wreck" notation north of Cape Canaveral refers to a 1768 sinking. Eighteenth-century dividers, still in working condition, came from a wreck site explored by Mr. Wagner's diving team.

Old Spanish script on a microfilmed document recounts the storied survivors. Dazed and hungry, the castaways staggered into St. Augustine and gave depositions about the night of terror. Here the author (left) confers with National Park Service historian Luis R. Arana, an authority on old Spanish. The Archive of the Indies in Seville, Spain, preserves the original records.

Clouds of smoke overspread an *Almiranta*, an admiral's flagship. The 155-foot vessel had a mainmast 150 feet tall; its poop stood 27 feet above the waves. Mounting 50 to 60 guns, such ships served for fighting and convoy duty, but carried little cargo except treasure. Galleons had disappeared as a type by 1713, but the romantic term survived long after as a name for treasure vessels.







neg. w. from London

# ATLANTICK

‡ Note 10 of 11 Slave  
 Fleet Ships were Lost off  
 the Coast of Florida in the  
 Terrible Hurricane of 1725

Bermudas in English

# OCEAN

### Variable Winds

## Tropick of Cancer

INDEX

# NORTH SEA

THE SEA

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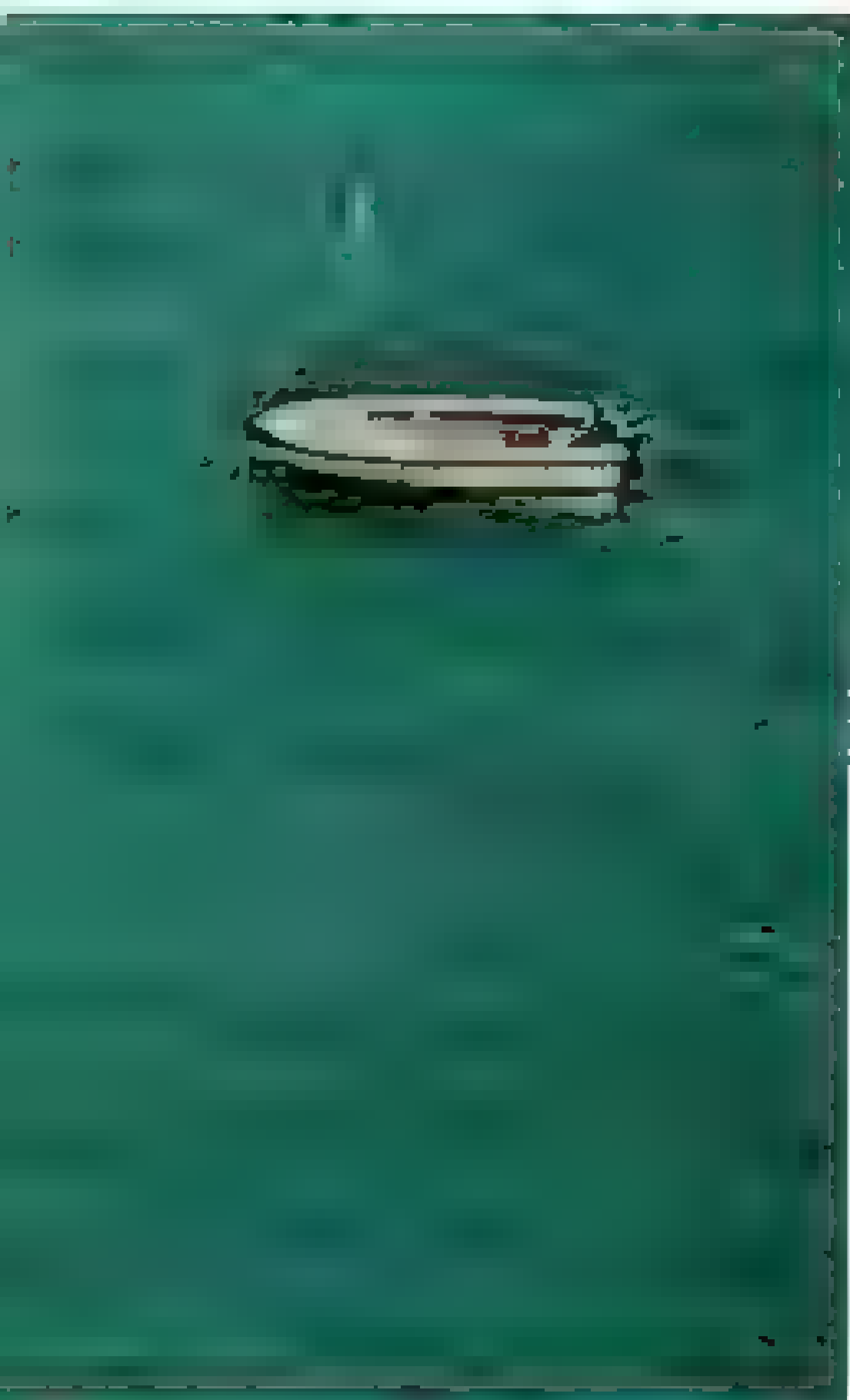
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Mr. ... ..



## Prizes from the sea

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## Introduction



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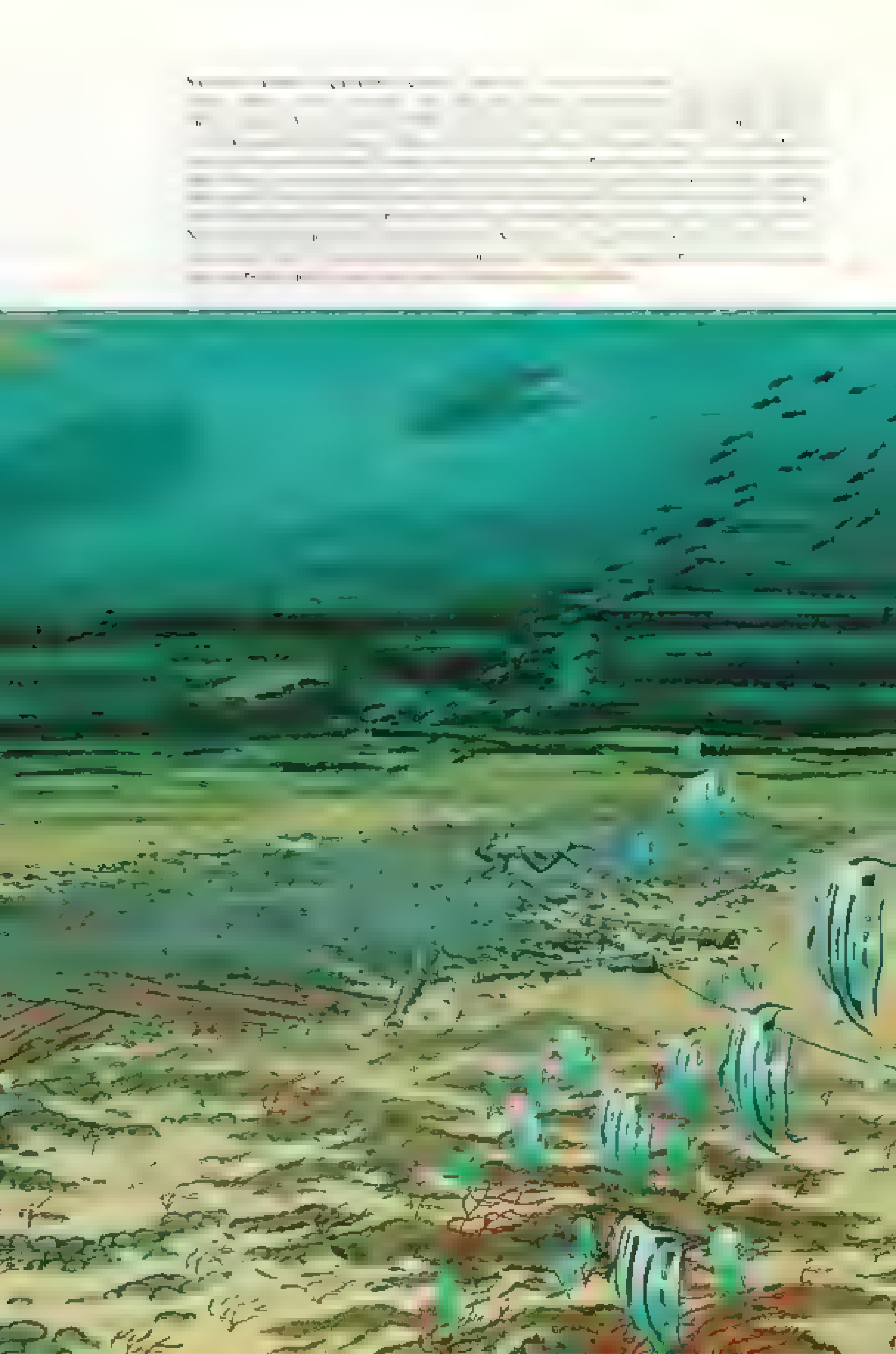
Small globe



Large globe







1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971). The concentration of chlorophyll was expressed as  $\mu\text{g mL}^{-1}$  of the sample.

11 12

Handwritten: *1970* [unclear] [unclear]

"I am following the lead of the FBI and the FBI is not alone in seeing a heavy sex. I think I am

• **Chances are you're not getting enough sleep**

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

1. *What is the purpose of the study?*

 $\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$ 

1. *Journal of the American Medical Association*, 1997; 278: 1019-1024.

(1)  $\mu$  is the  $K_{\text{eq}}$  of the reaction  $\text{H}_2 + \text{I}_2 \rightleftharpoons 2\text{HI}$ .

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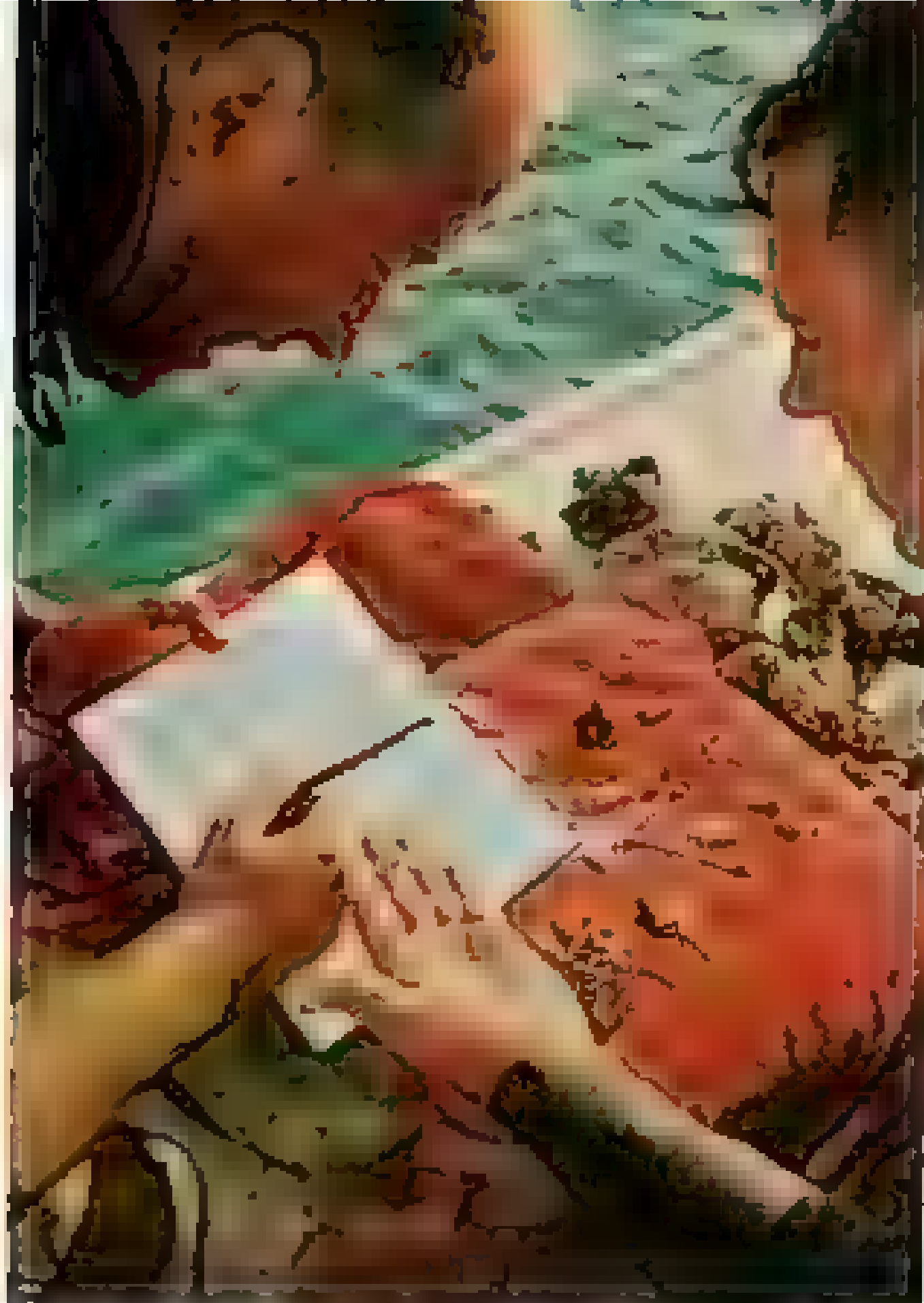
1. \_\_\_\_\_ worked the landmarks. The  
2. \_\_\_\_\_ that would be the same  
3. \_\_\_\_\_ of the Salween River will  
4. \_\_\_\_\_ eat fresh water or was a  
5. \_\_\_\_\_ which were the first to be





The first of these is the fact that the object is not a simple cylinder, but has a complex, irregular shape. This is evident from the way the hands are holding it, which suggests it is being examined for its form. The second is the texture of the object, which appears to be made of a fibrous material, possibly wood or bark. The third is the color of the object, which is a dark brown, suggesting it may be made of a specific type of wood or bark. The fourth is the way the object is being held, which suggests it is being examined for its properties. The fifth is the background, which is a dark red, suggesting a specific setting or environment. The sixth is the lighting, which is bright and even, suggesting a professional or scientific setting. The seventh is the overall composition, which is simple and focused on the object, suggesting a clear and concise presentation of the information.

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions, including sales, purchases, and expenses. It emphasizes the need for a systematic approach to record-keeping, such as using a ledger or accounting software, to ensure that all financial data is properly documented and organized.

2. The second part of the document focuses on the importance of regular reconciliation. This involves comparing the company's internal records with external statements, such as bank statements or supplier invoices, to identify any discrepancies or errors. Regular reconciliation helps to ensure the accuracy of the financial records and allows for the timely identification and correction of mistakes.

3. The third part of the document discusses the importance of maintaining proper documentation for all financial transactions. This includes keeping receipts, invoices, and other supporting documents for a sufficient period of time to allow for verification and audit. Proper documentation is essential for ensuring the integrity of the financial records and for providing evidence in the event of a dispute or audit.

4. The fourth part of the document discusses the importance of maintaining accurate records of all assets and liabilities. This includes tracking the value of the company's assets, such as property, equipment, and inventory, and recording all liabilities, such as loans and accounts payable. Accurate records of assets and liabilities are essential for determining the company's net worth and for providing a clear picture of its financial position.

5. The fifth part of the document discusses the importance of maintaining accurate records of all income and expenses. This includes tracking all revenue generated by the company and recording all costs incurred in the course of its operations. Accurate records of income and expenses are essential for determining the company's profitability and for providing a clear picture of its financial performance.

6. The sixth part of the document discusses the importance of maintaining accurate records of all tax-related information. This includes tracking all taxable income and expenses, and recording all tax payments and credits. Accurate records of tax-related information are essential for ensuring compliance with tax laws and for maximizing the company's tax efficiency.

7. The seventh part of the document discusses the importance of maintaining accurate records of all financial statements. This includes preparing and maintaining a balance sheet, income statement, and cash flow statement. Accurate financial statements are essential for providing a clear picture of the company's financial position and performance, and for making informed decisions about the company's future.

8. The eighth part of the document discusses the importance of maintaining accurate records of all financial transactions. This includes tracking all sales, purchases, and expenses, and recording all financial transactions in a systematic and organized manner. Accurate records of all financial transactions are essential for ensuring the integrity of the financial records and for providing evidence in the event of a dispute or audit.

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Bearded and humped wood peckers  
are of a somewhat paler tinge than  
have been a previous generation. I can

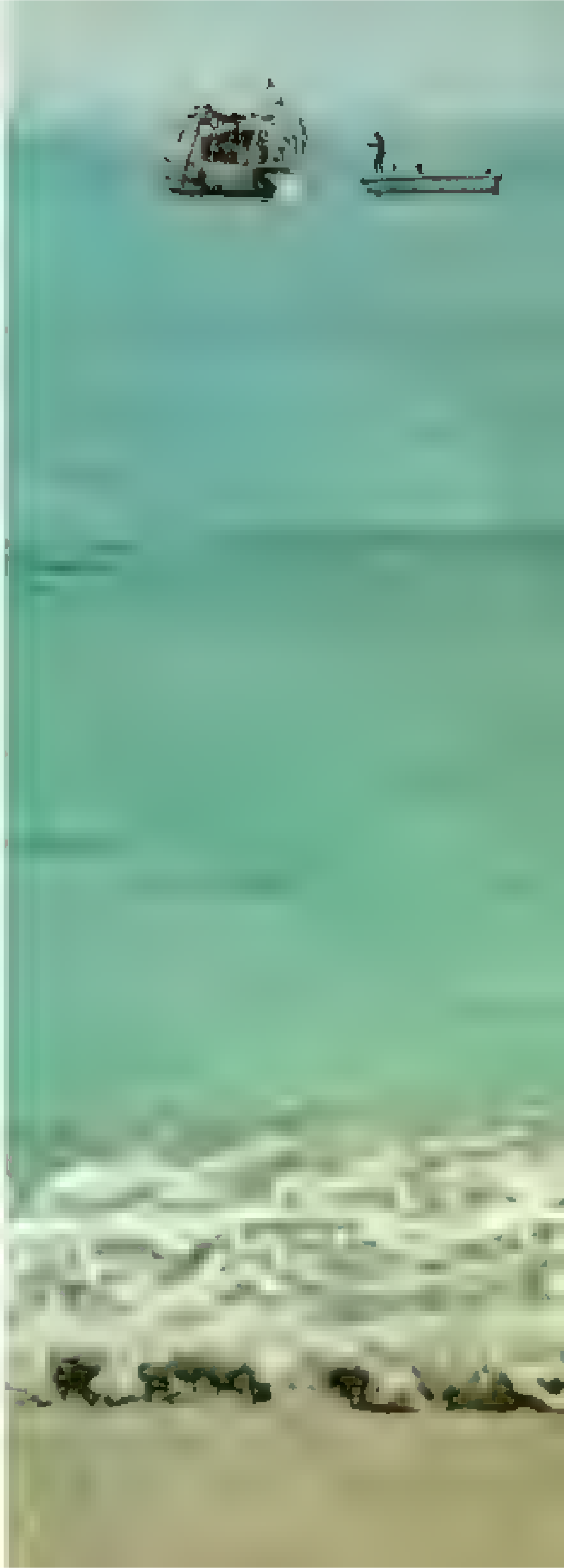
"between the middle left forefinger of the  
 left hand and thumb," says the report. "The  
 thumb is stretched to make it as long as the  
 middle left forefinger, and the middle fore-  
 finger." Photographs show the subject  
 holding the left hand over the right side.

So close and yet so tragically far. Now  
from the rest of a people large and small you  
fly, disoriented, uncertain and there's no one to  
lead. The darkness before dawn is a time  
for the "good work" of a night too dark for  
the "good work" of a morning for the "good  
work" of the day. The day is a day that is  
a day of a day of a day.

A diagram that illustrates the shape of a convex triangular pyramid is not the best illustration of the fact that it is a pyramid for but the effect of this pyramid is in the Treasury market is not the best illustration of the fact that it is a pyramid.

Now I was really hooked. I ran over the computer carefully, noting the location of each bird and listening at every beat of a pulse, a sound. At only a couple of us were formations of a mass. They seemed to develop, growing curiously about my feet, perching among the bushes and scrub near the beach. In the evening toward sunset they came, some of them evidently flying out of their way to pass over my exact location, wheeling and making a low war, as if searching for a tiny new among the multiplying sand beach and gull colonies.

I visited the pelicans' nest, lower or higher I know not, both a week ago from the present day, along this shore, and perhaps from the air I might see something. A good look might be found. I arrived at 10 a.m. from the heavy squall-work with two great fogged air were





Scanning the ocean from the air, staffers seek signs of a sunken ship. When they spot a dark patch, they race toward to be the first to drop a marker. It turns toward the exact location where a ship lies a marker. The marker is a set of reconnaissance. Ships' can see the sea floor and decayed timbers usually produce a darker pattern in marked contrast to the color of the sea floor. One can't

be plucked from the ocean every man's dream of discovery. But the ship has put a foundation under the dream. "It's not the same in research," says Mr. Wagner. "I need a crew of good working divers and a big boat crammed with gear. And above all, I need the money to do it."

Vacuuming the sea floor, a diver with suction apparatus is at the helm. Another scanner and a diver examines the material. The job is the same. Later, the diver will spend the hours of things to be sure not to let a ship have been overlooked. The water hunters drew up a map of each ship, as an hour's work in a deep sea. They will be careful to get any part of the wreck. Rare clear water gave a speck of blue in the photograph of the wreckage. One green





1. The first part of the document is a list of the names of the people who were present at the meeting. The names are listed in alphabetical order. The names are: John Doe, Jane Smith, and Bob Johnson. The names are listed in the first column of the table.

### Section C: Other Comments

2. The second part of the document is a list of the comments made by the people who were present at the meeting. The comments are listed in alphabetical order. The comments are: John Doe said that the meeting was very productive. Jane Smith said that the meeting was very informative. Bob Johnson said that the meeting was very helpful. The comments are listed in the second column of the table.

3. The third part of the document is a list of the actions that were taken during the meeting. The actions are listed in alphabetical order. The actions are: John Doe said that the meeting was very productive. Jane Smith said that the meeting was very informative. Bob Johnson said that the meeting was very helpful. The actions are listed in the third column of the table.





below, where the water surface gives color  
to the sky.

It takes a minute or a couple of min-  
utes right to feel summer up to the  
knees. Viola is a minute or two longer.  
Sinking deeper, you find your hands touching  
what is 2 feet on land, ridges of gravel and  
sand. Now, just as you reach bottom, the sand  
he lifts you and sweeps you off your  
feet, back and waving sea grass. You grab



diver emerges with gold in his grasp.

For a moment, you feel swinging  
in with the water, but the water feels over-

weighty. You are a part of the water, and you are a part of the whole.

Now, you are a part of the water, and you are a part of the whole.

Now, you are a part of the water, and you are a part of the whole.

Now, you are a part of the water, and you are a part of the whole.

Now, you are a part of the water, and you are a part of the whole.

we carefully examine our rock. Strained  
by the water, it is a part of the whole.

For a moment, you feel swinging  
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weighty. You are a part of the water, and you are a part of the whole.

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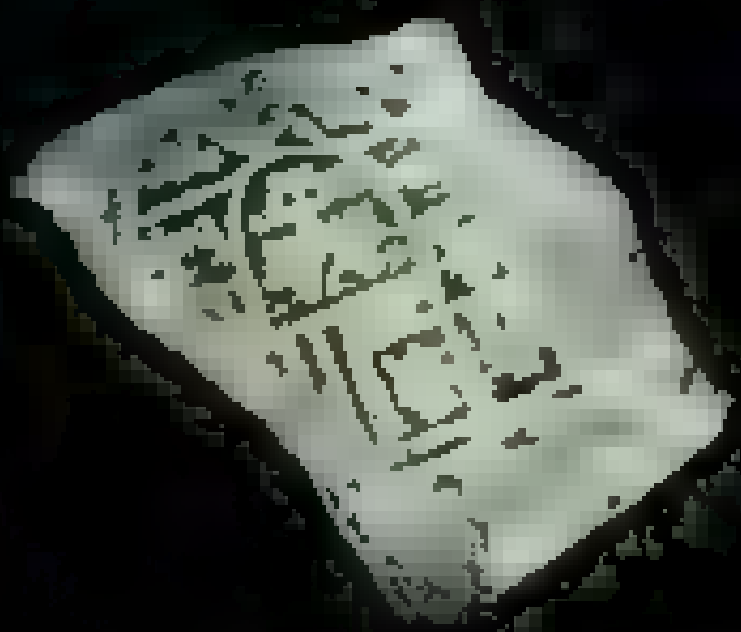
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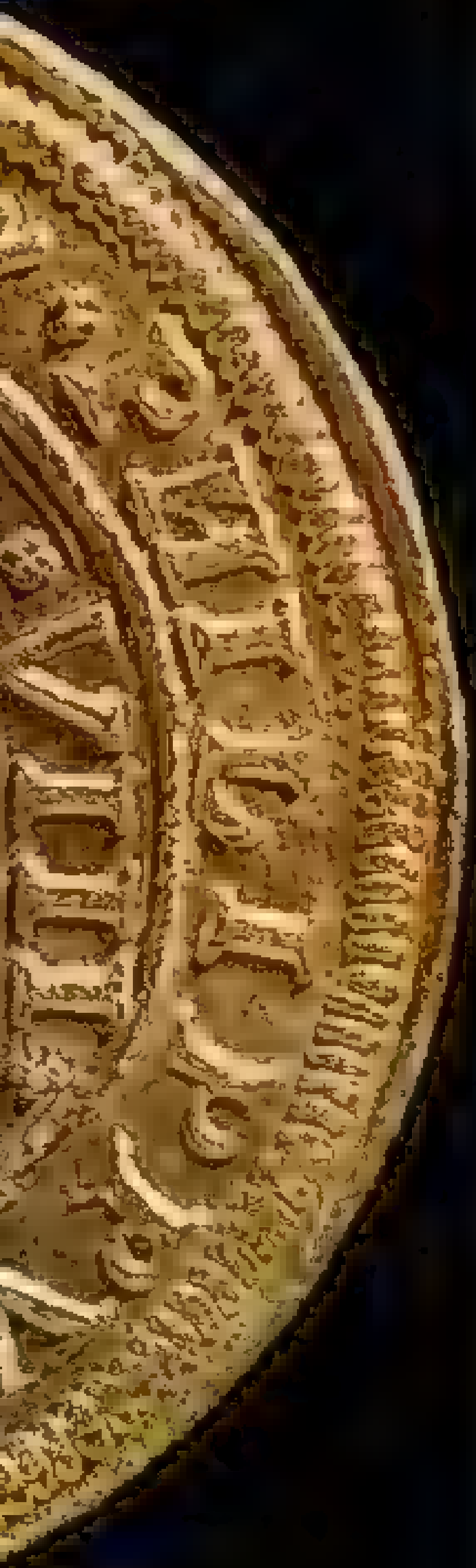


## *Golden doubloons and silver pieces of eight*

COINS RECOVERED FROM THE 1715 TREASURE fleet bear cross on one side, coat of arms on the other. The gold, a noble metal, resisted corrosion during its centuries of submersion, but some of the silver shows the effect of sea water. Symmetrical doubloons were struck more precisely than the angular, oddly shaped silver pieces, which probably were destined to be restruck in Spain. In terms of today's monetary value, each doubloon had a purchasing power of several hundred dollars in the early 18th century; each silver coin \$10 to \$15. On the modern coin-collector's market, doubloons fetch \$400 to \$1,000 apiece; the silver coins as much as \$100 each.







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1) suppose that  $\mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B})$

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and the role of the accounting system in providing reliable financial information.

2. The second part of the document describes the various methods used to collect and analyze data, including interviews, surveys, and focus groups.

3. The third part of the document presents the results of the study, showing that the accounting system plays a crucial role in the success of the organization.

4. The fourth part of the document discusses the implications of the findings and provides recommendations for future research.

5. The fifth part of the document concludes the study and summarizes the key findings.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

"I've found the captain's eye," Dan said. "Long as he handed up a fuzzy report. Here's some of the stuffing."

The "stuffing" we later identified through the good offices of the Smithsonian Institution's Chairman of Armed Forces History, Wendell Peterson, as a mixture of cow hair and pitch with which the Scandinavians sometimes coated their wooden hulls to secure the ever-present leachedos.

In a basket and of litter sent up from the bottom one day we found a large, rusted, cast-iron ring, which had been exposed to a metal or etching, spoke strangely. The next basket brought up five wedges of blackened silver. Laid in a circle eight inches in diameter, the wedges made a silver "pie" with a gap for the encrusted piece. Three layers of these "pies" would fit a small keg, which probably had been an Indian beaver. Two barrels would be a full load for a donkey.

Peeking under the ballast, we found three more of the silver wedges, but we were searching for the rest of our barrels of silver in the process. However, we convinced ourselves that we were over the keel of the ship. Our hard-won experience was beginning to teach us something of the process by which a ship decays. Lighter materials had all disappeared years ago. The sterner parts may have survived for no more than a few months with the iron, the bronze, and the lead. Freeholders would have made off with everything worth carrying away.

So, we summarized that the cargo would be inaccessible to divers who had to hold their breath. Heavy objects—like the guns—would settle to the bottom practically on the spot. And, since the precious metals are extremely heavy, we centered our search on the lower area of the ballast heap, where the ship's ribs join the keel.

### Sea Seems to Be Very on Schedule

New finds turned up with a regularity that surprised us. Once it was a silver cup and one weekend we uncovered a matching silver dish, a gilded inkwell, and a shaker for blotting sand.

On another trip we found a set of bronze weights, all nested together like pyramids (page 15). In the meantime we continued to find occasional coins—sometimes the smallest pieces of four or two reales.

Finally, some of the most fascinating prizes have been pieces of Spanish coin, most of

that last-ill day. We turned up three pairs of ass-pivoted spindles, one still in working condition, and a 2-penny of sailing tackle, dated 1712. That is a most an exact counterpart of the weights still in use today—a striking example of the functional side of a sailor's tools, as well as the conservatism in the ways of the sea (page 30).

### Mass of "Rock" Holds a Surprise

"I need a rope!" Dan Thompson seemed strangely excited. He took a run on one arm, went over the side.

"Help me pull!" He handed up one end of the line and taved as we assumed we were helping him move some larger ballast stone or piece of debris. We heaved on the line. We could see he was treading water as hard as he could.

"Easy—careful!" he called, but the weight of the mass he was pulling was great.

We pulled the line until he was alongside the boat, then released it as we all rushed to the rail. Dan went under again with his arms wrapped around something dark. Many hands seized the line, we heaved together and he tusted as we raised a greenish-black mass over the rail (page 15).

When I tagged at one edge it came away and silver poured from the heart of the dark mass. Here in one chunk were more than 50 pounds of silver coins.

We expected a few coins, perhaps even a outfit of a time, but this was something out of all proportion. In one brief dive we had more than doubled the value of a four previous finds.

Before our astonishment could wear off Dan went down again, taking Harry Cannon with him. The two brought up another chunk as big as the first.

The outermost layer of these coins is totally blackened, but by a treatment called electrolytic reduction, a solution of zinc and caustic soda reconverts the corrosion to metallic silver.

Coins in the center of the clumps remain a tractable metal. Some are as bright and undamaged as the day they were minted.

These ancient coins look really compared to the well-worn coins of other eras. Part of their fascination, however, lies in their irregularity. No two coins are alike (pages 26-7). Each piece was chased from a flat bar of silver and then stamped with the royal coat of arms on one side and a cross on the other.



View picture of a black and white

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

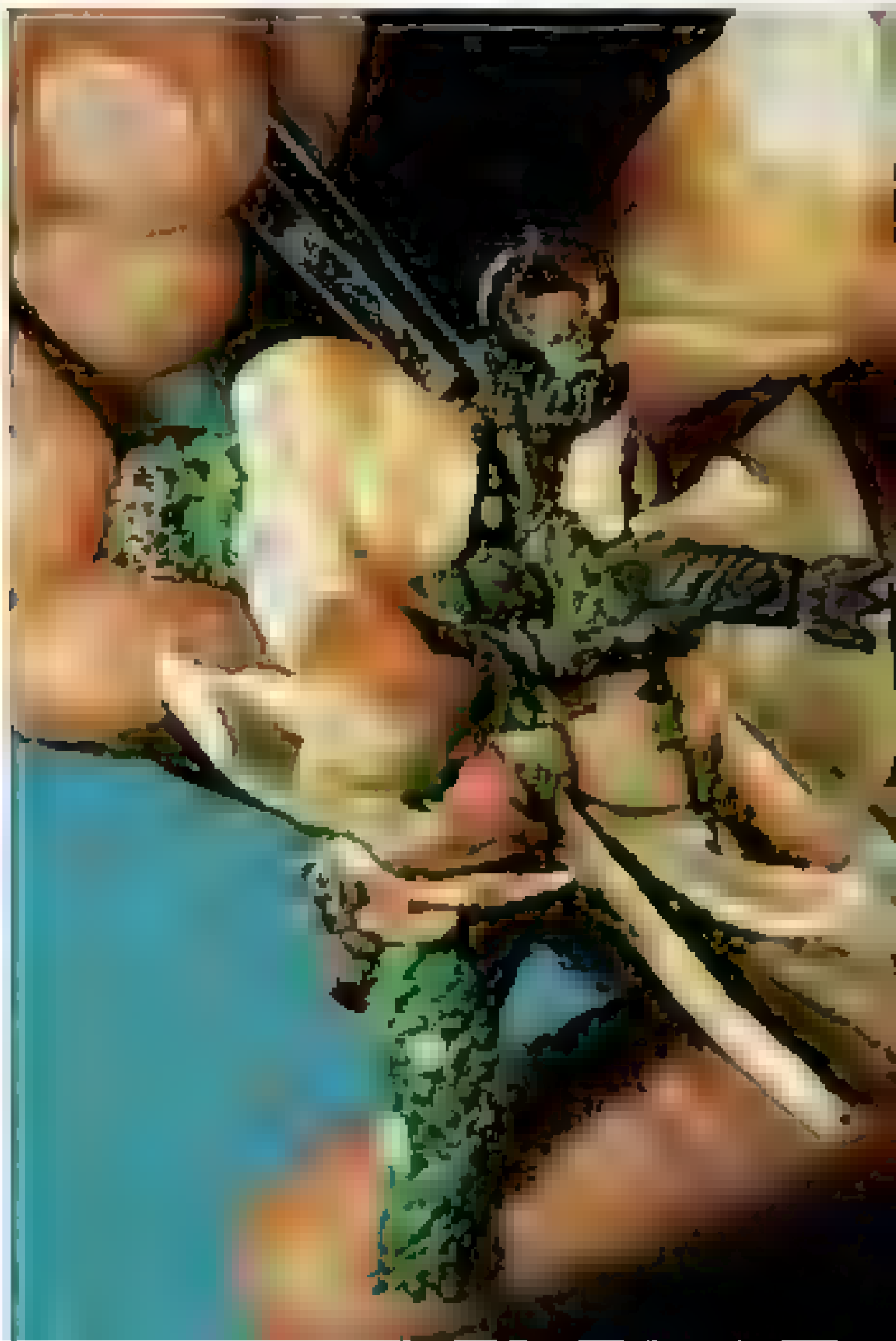




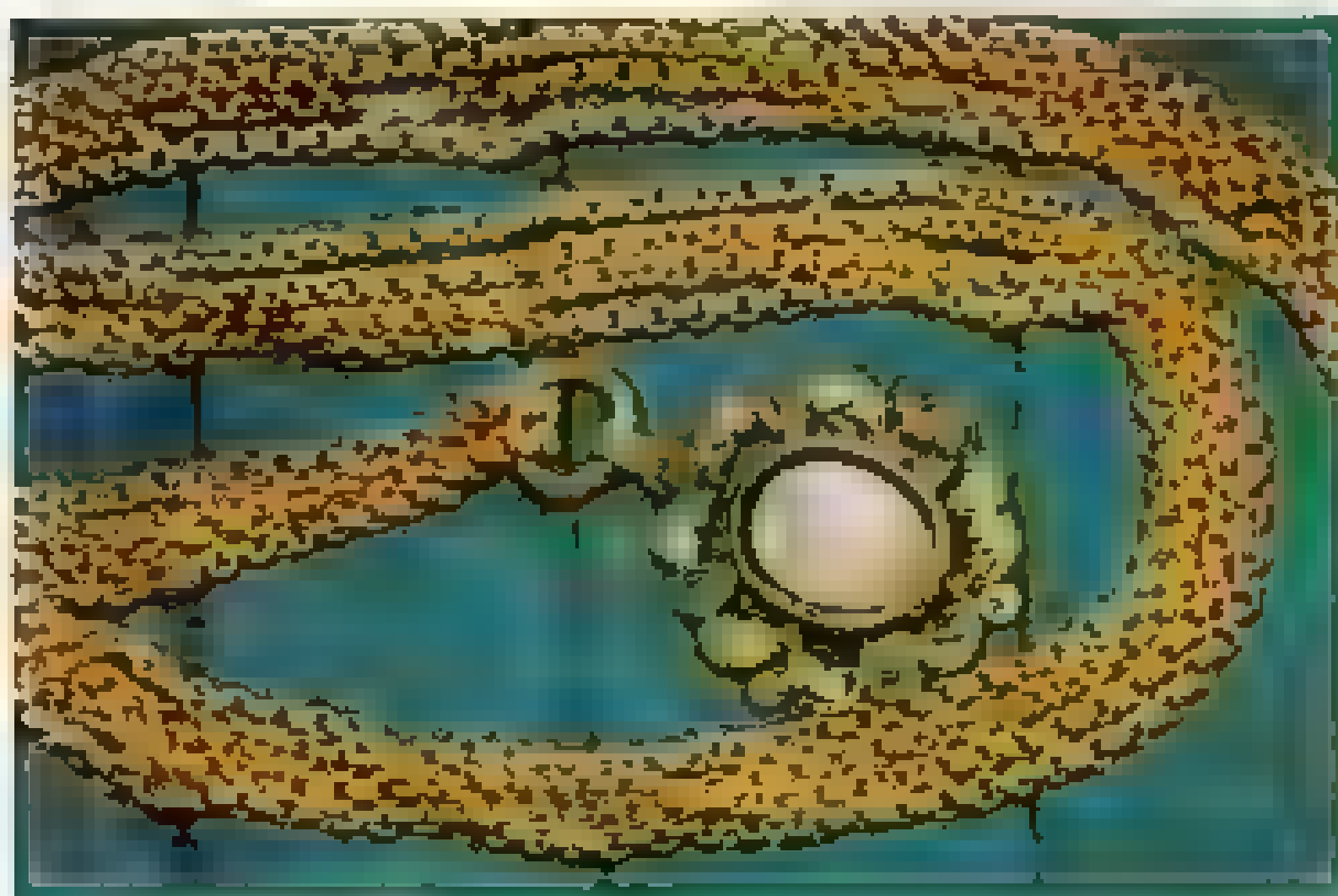
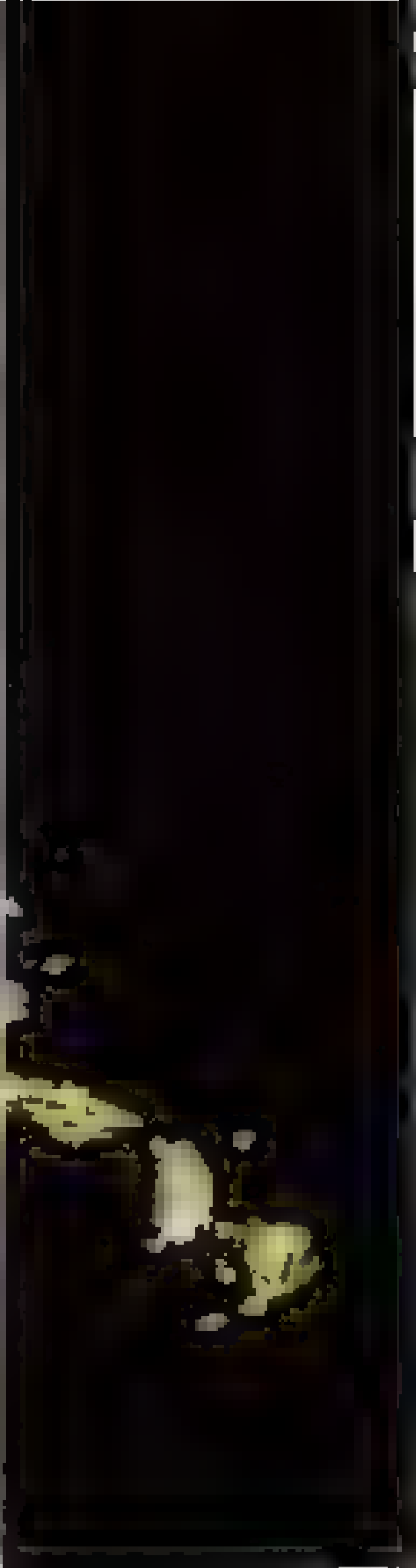




SILVER CUTLERY









[illegible][illegible]

**(Lengthy Open Over & Carpet of Cash)**

We have extended our search by joining forces with a highly competent professional organization, the American Institute for the Detection of Metal. Fisher, Inc., has joined with them as a consultant to detect buried, sunken ferrous metal and other detector-hidable materials, whether of gold, silver and other precious metal.

It was Fisher's group that made one cautionary note. Although the model was not intended to be used for predicting the effects of a single stressor, he noted

re. I was doing research on the 1915 disaster. He allowed us to dive nearby. Diver and both groups were working there one day, using the hot air with a water jet system. The loads of sand and the piled there have been in which he was, by a car, and the car was golden brown. We have since found more than we had before. It was a very close by the thousands.

As I write this I have strewn before me on the floor a few samples of the finds from only the past few months. Here are two small gold nuggets, one weighting three pounds and the other one 1 pounds of solid gold. Here is a 25 round medal of silver and a two-foot-long bar dated 1950. There are gold rings, necklaces and medallions, and a collection of gold coins. But this is only a sampling.

As I said, we now estimate our total loss is more than a million dollars. But when I speak to a group of stockholders of the year, I tell them that I am most concerned. The real test of the company has to be the prices of the stock.

for the future. And we  
we have defined local as several more  
weeks, and in coming years we hope to  
put together more pieces of the puzzle.

The excitement of the search, even the hours of waiting, are ones our boys have grown fond of. I am confident we have brought everything home as a gift from the sea, and our boys will always be the unforgettable ones of discovery.

King's personal assets would be subject to one of the trusts he had set up to protect his family's wealth.

[illegible]

# American Special Forces

HOW COOLNESS AND CHARACTER AVERTED A BLOOD

Article and photographs by  
HOWARD SOCHTEREK

Article and photographs by

HOWARD SOCHTEREK

Illustration by

HOWARD SOCHTEREK

W HEN I STARTED TO  
write this book, I

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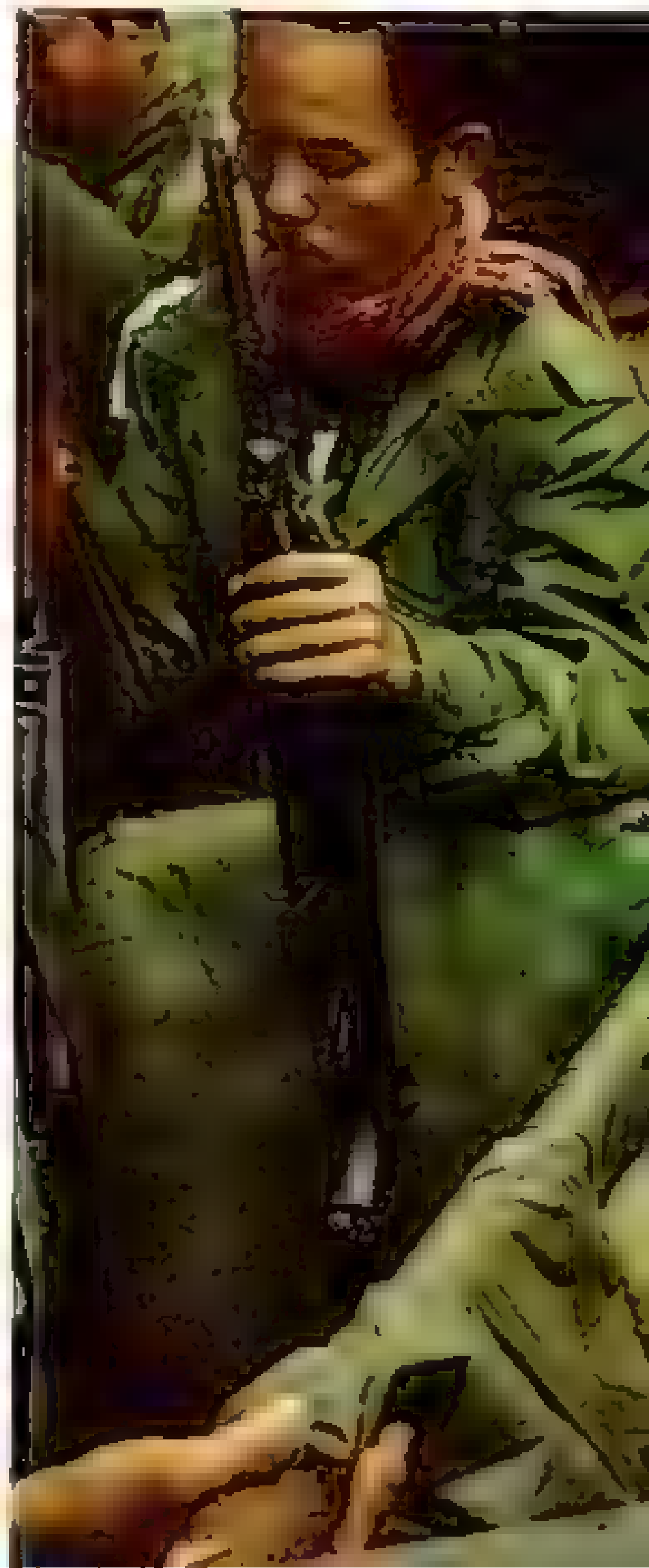
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# in Action in Viet Nam

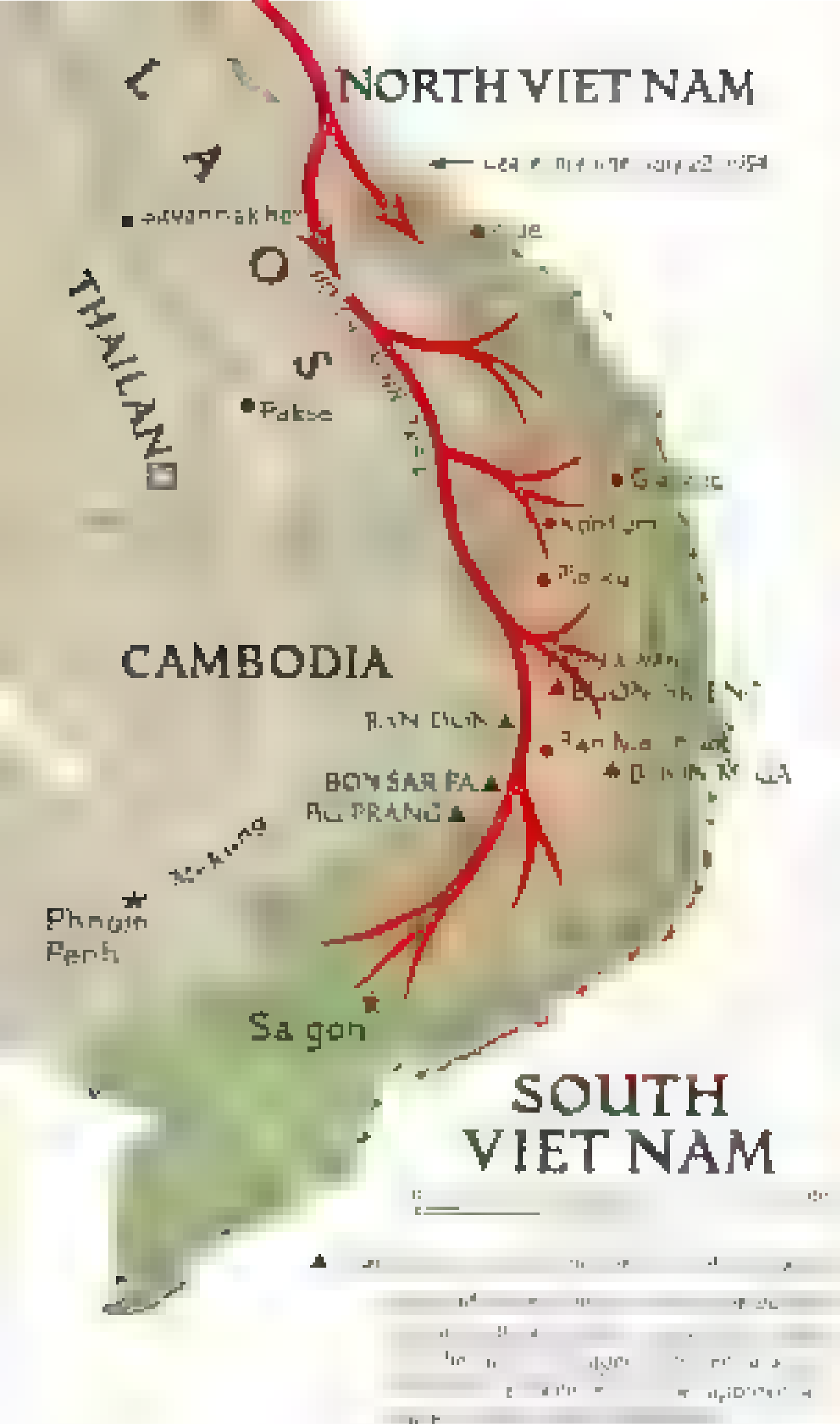
BATH WHEN MOUNTAIN TRIBESMEN ROSE IN REVOLT



Ar. 100 p. 10







## SPECIAL MAP SUPPLEMENT

W

1. The map shows the location of the border between North and South Vietnam. The border is marked with a red line. The map also shows the location of the Gulf of Thailand and the South China Sea.

2. The map shows the location of various cities and regions in Vietnam, including Hanoi, Haiphong, Vinh, Thanh Hoa, Hue, Da Nang, Saigon, and Phnom Penh.

3. The map shows the location of the border between Vietnam and Thailand to the west, and the border between Vietnam and Cambodia to the south.

4. The map shows the location of the border between North and South Vietnam, which was established in 1954.

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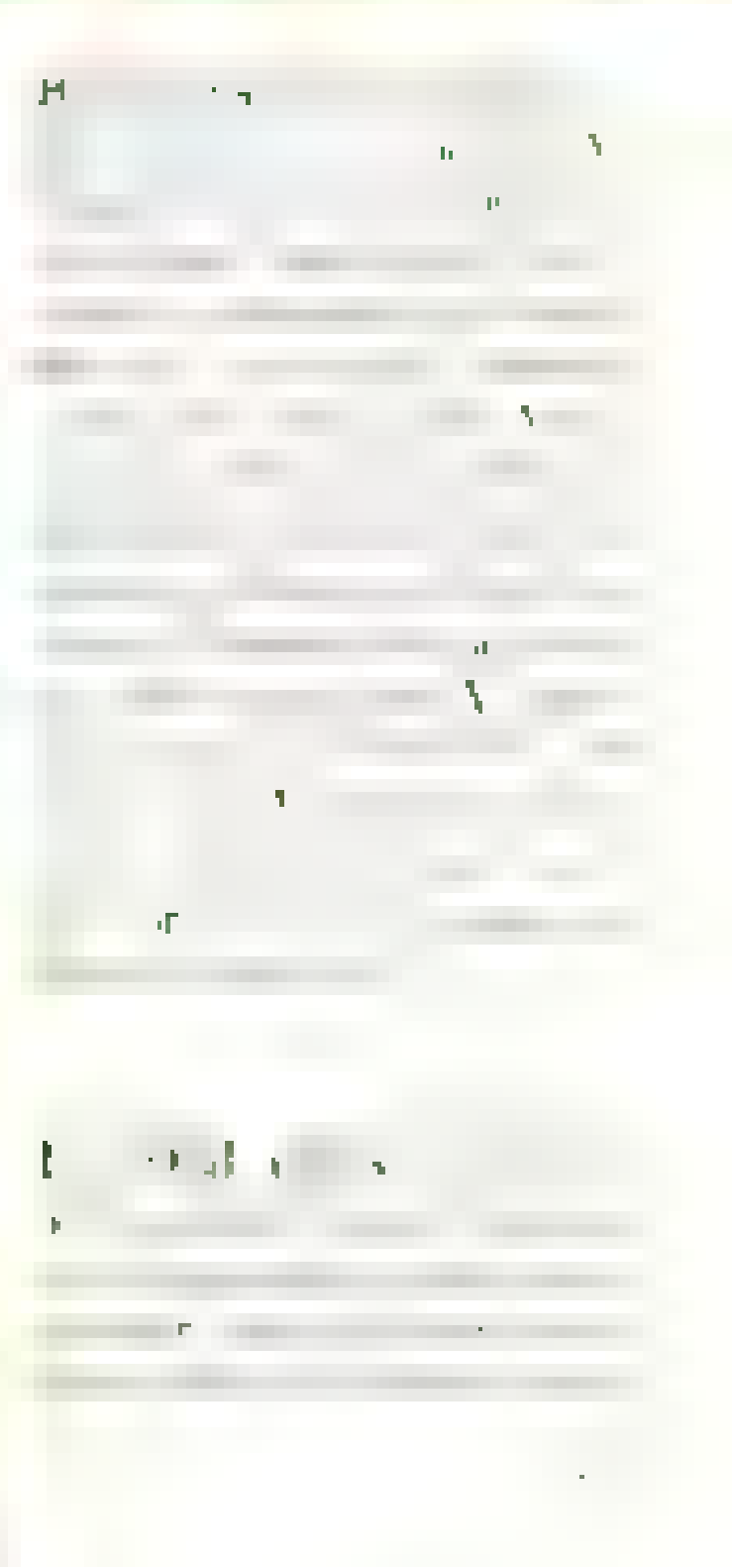
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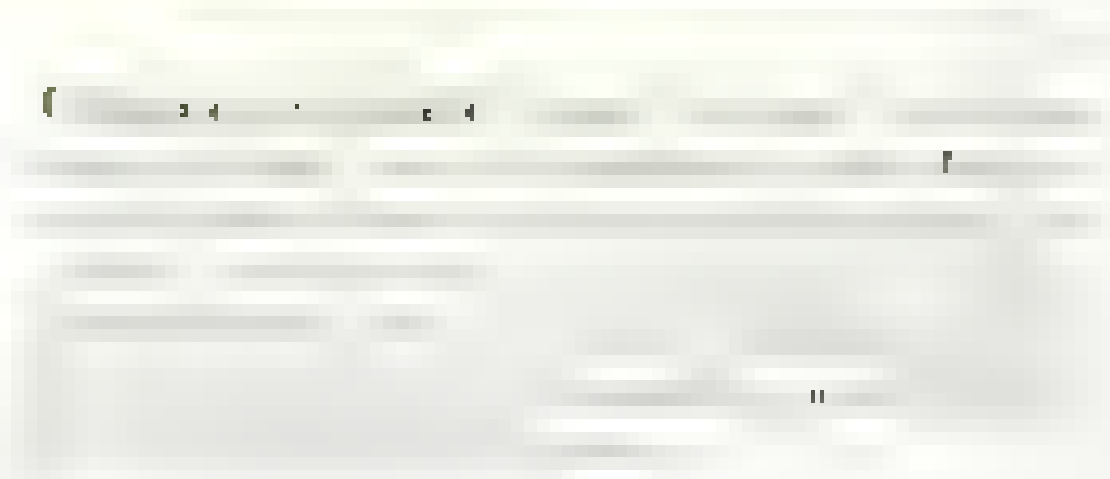
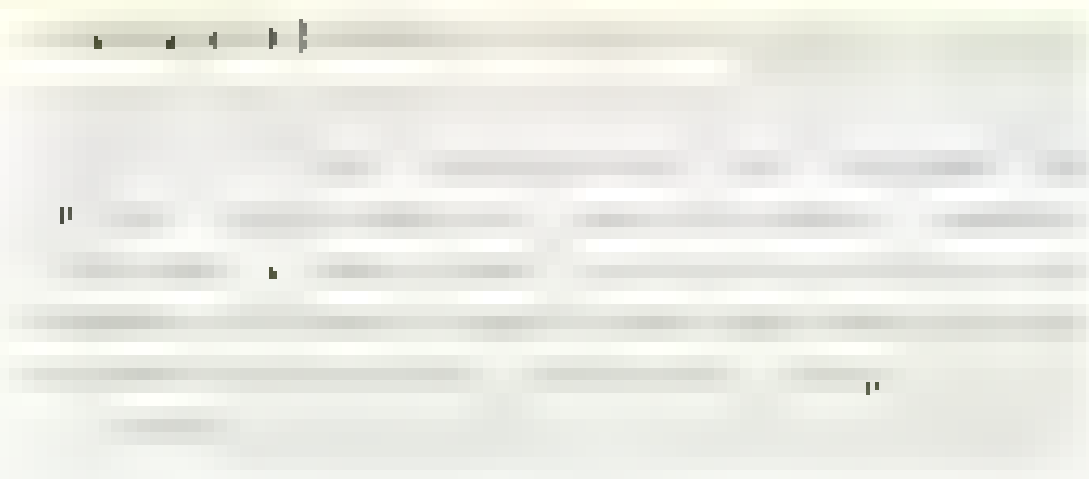
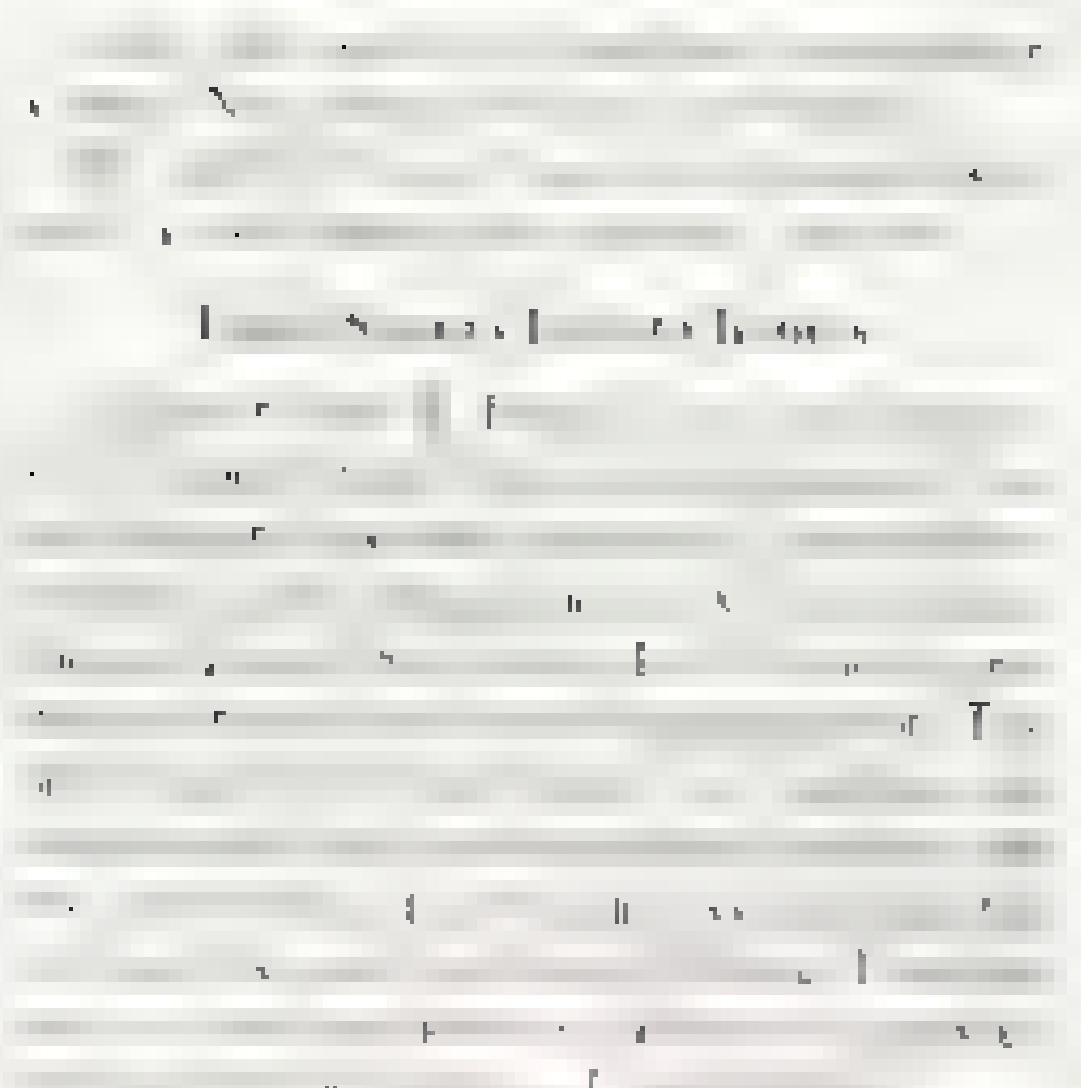
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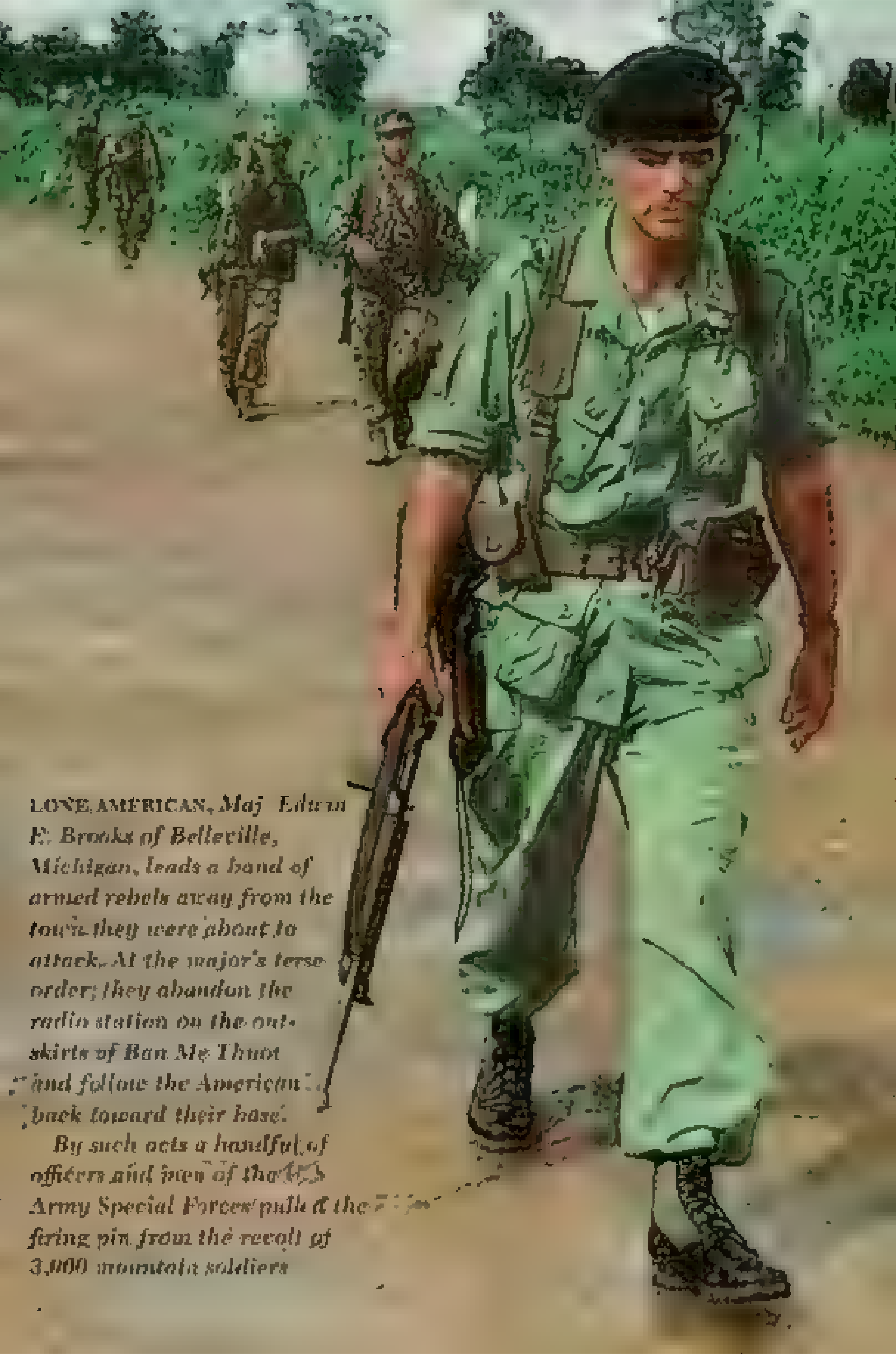






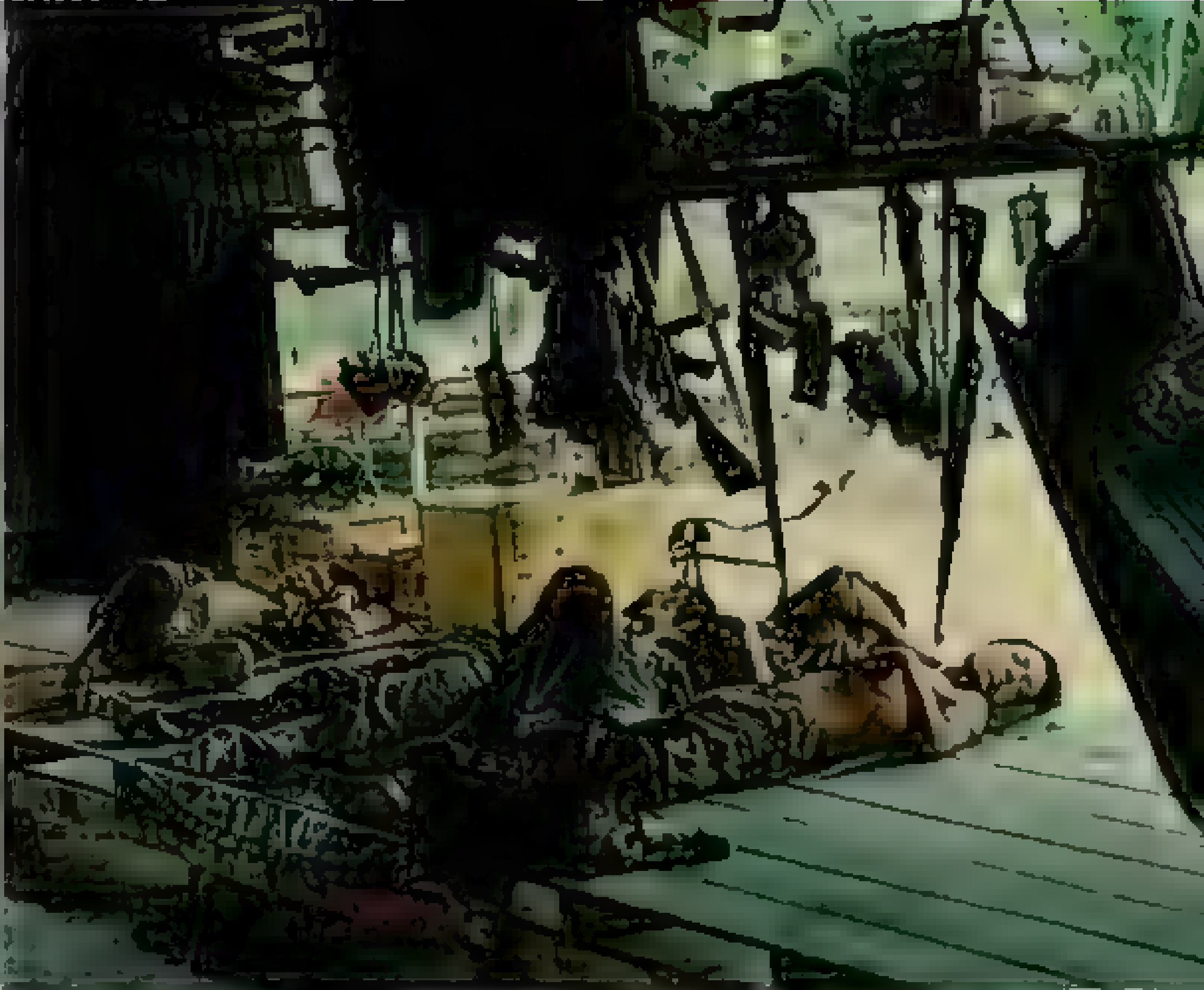






LOVE AMERICAN, Maj. Edmund F. Brooks of Belleville, Michigan, leads a band of armed rebels away from the town they were about to attack. At the major's terse order, they abandon the radio station on the outskirts of Ban Me Thout and follow the American back toward their base.

By such acts a handful of officers and men of the U.S. Army Special Forces pull at the string pin from the revolt of 3,000 mountain soldiers



How did you feel?

1

What did you learn about you?

2

What did you learn about others?

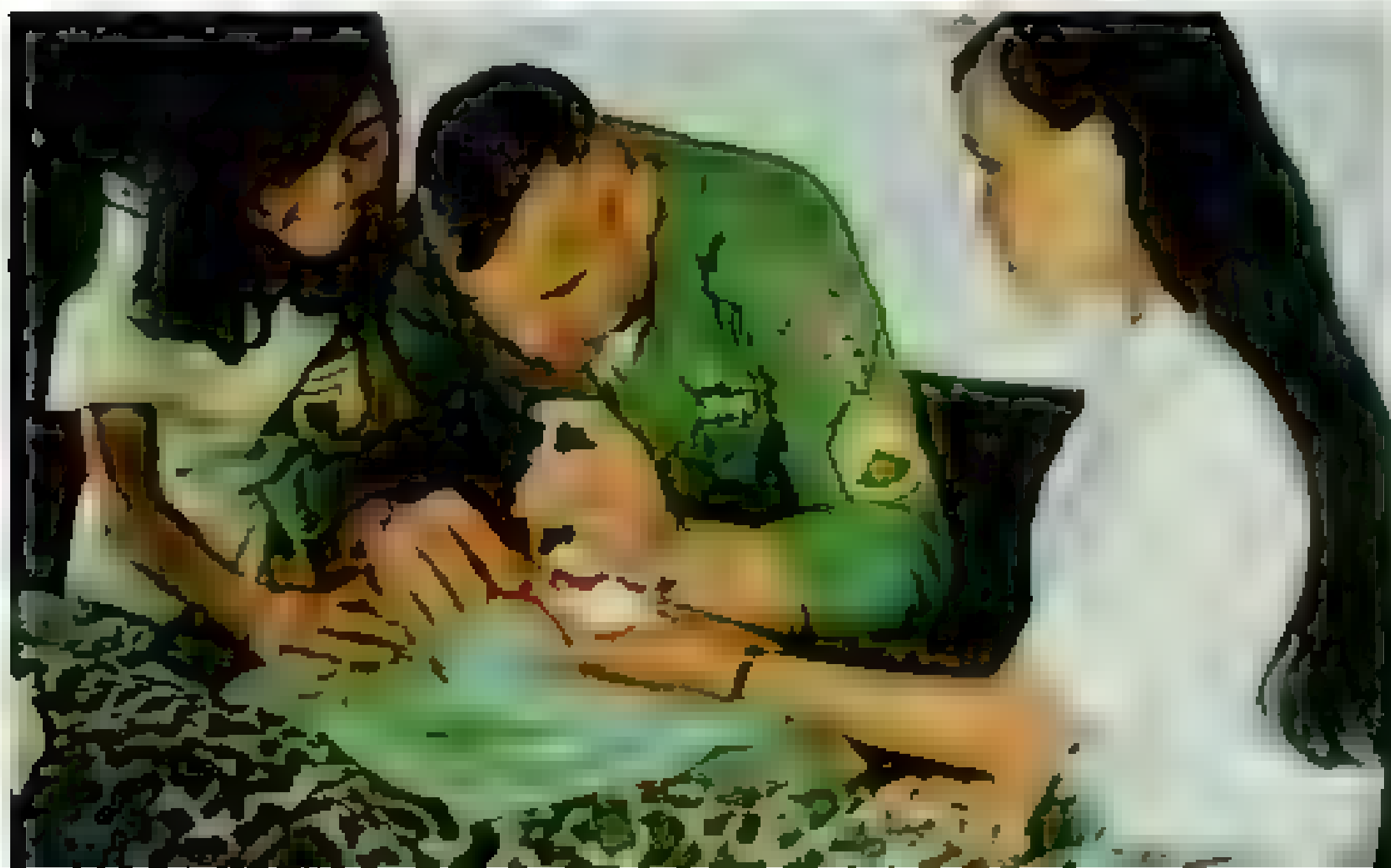
3

What did you learn about the world?

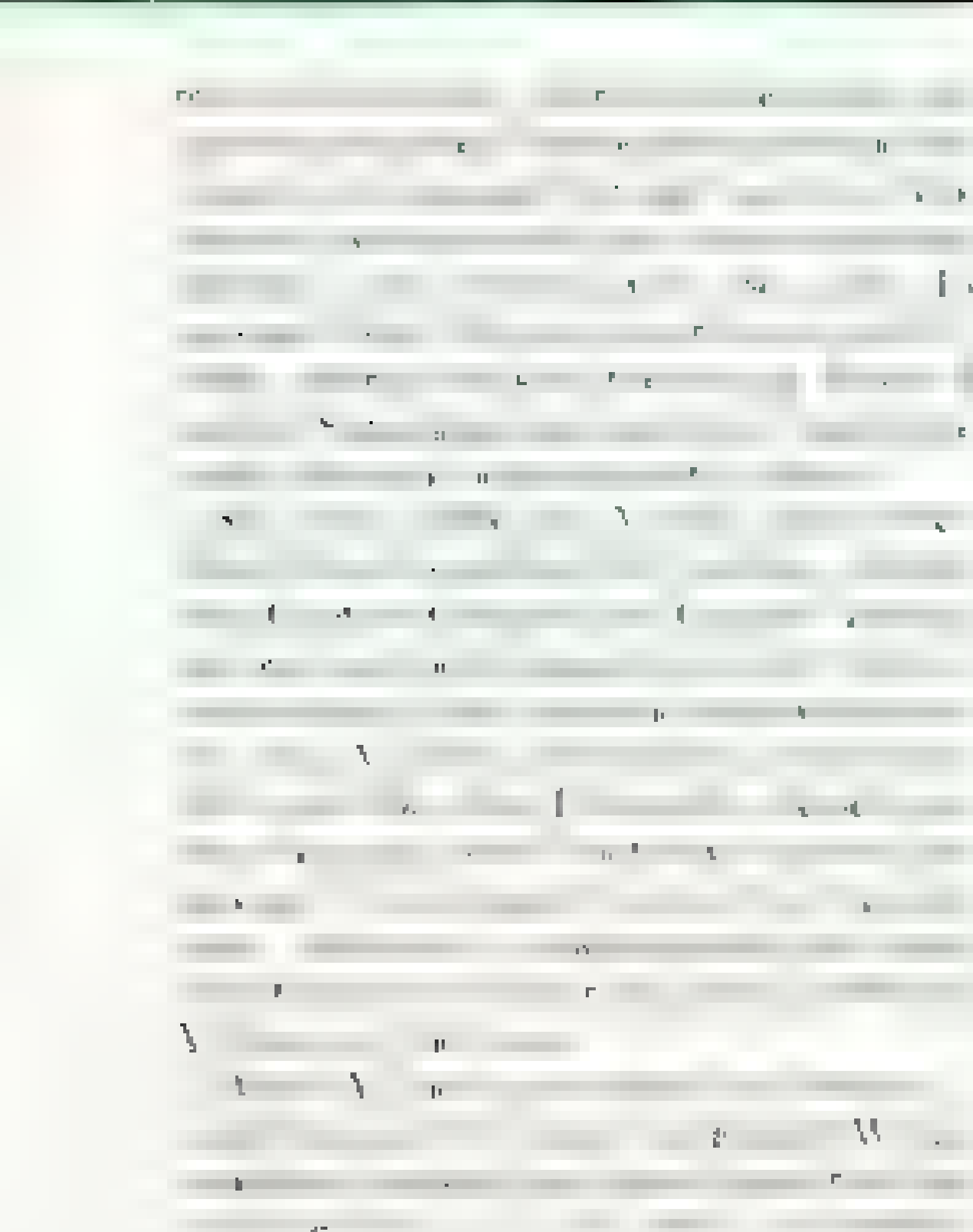
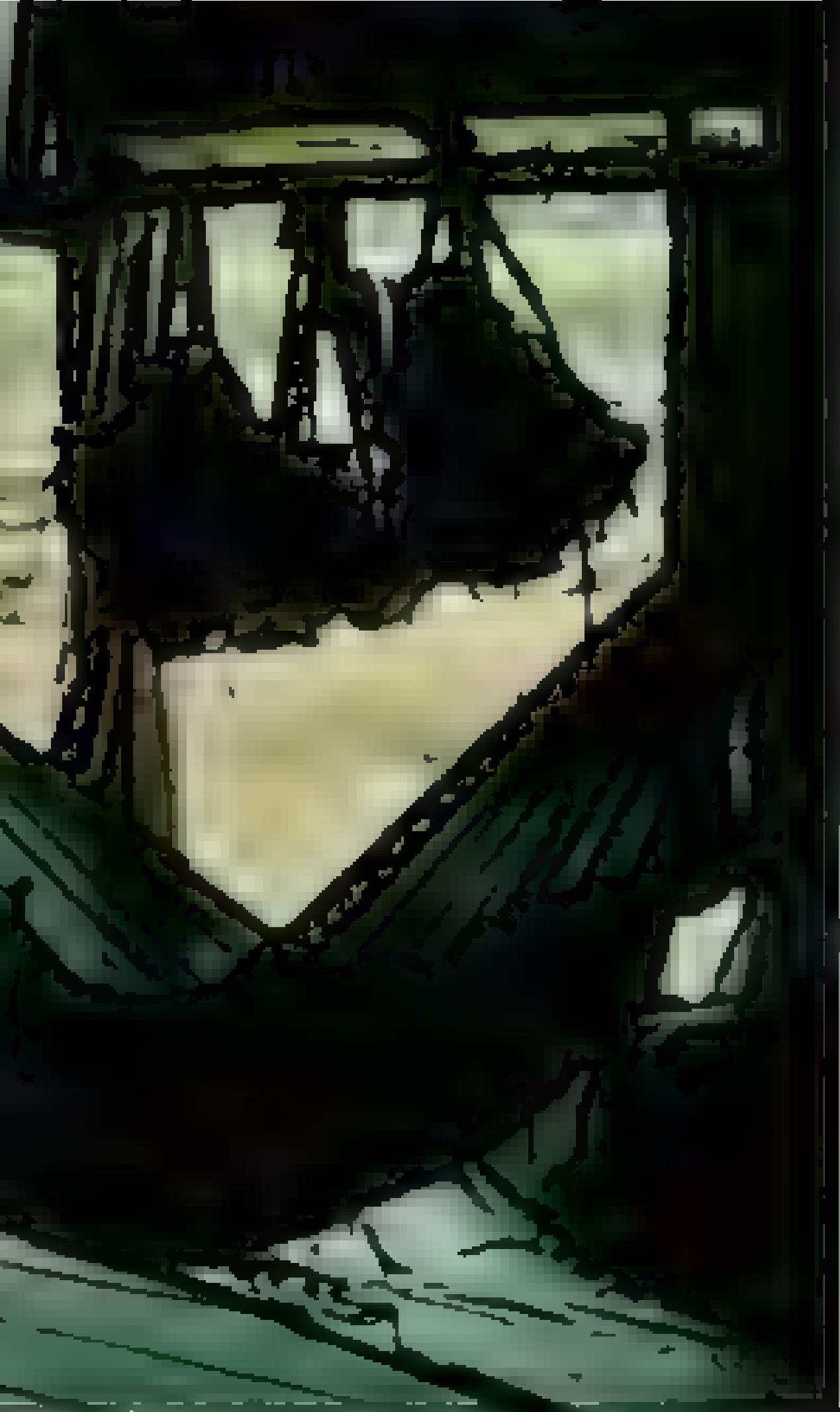
4

What did you learn about yourself?

5





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1. *Journal of Management Studies*, 1997, 34, 1, 1-14.

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### Lone Soldier Sways Fence Montagnard

Then A. Then introduced C  
 wing. "The United States is the father of the  
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As the group moved forward, the  
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Americans, we will fight the  
 I wanted. Strong will was, I think.

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and C-123 cargo planes. It is up  
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How many more  
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going down there now. We've got to get them to me I repeat."

The three of us joined him. Our jeep faced last Vietnamese Army units—part of the permanent security force of the city—forming up to resist the rebel attack. I thought of how lonely an affair this well might become.

At the radio station, Brooks vaulted from the jeep. A house, field of knee-high grass, surrounded the two-story cement building. He and two men in camouflage, jungle green, had dug in along the fence. They trained their automatic weapons on the major approach.

Moore, Ed Brooks advanced toward the building. Alone, he strode to the center of the rebel perimeter. He could have been shot at any moment. But not a man moved. Brooks motioned Y Jhon to join him. I marveled at his calmness. This was real heroism.

He summoned the rebel position leaders and explained, as Y Jhon interpreted, that the revolt was over. They were to return to their barracks. Then he raised his right arm over his head in the military signal, "Follow me."

#### Insurgents' Trial American "Fred Piper"

Brooks headed down the road that led out of the station, the rebellious troops following him. He was like the old Piper of Hamelin. What an incredible moment! Scores of tough soldiers, armed to the teeth, submitting to the will and leadership of a lone American major, age 49.

At the station gate, without breaking step, Brooks ordered Collespie to get trucks for the troops from wherever he could, as soon as he could. Brooks knew that if he could keep these troops from going, the revolt would end. So he walked on. I walked with him. As we marched, Brooks signaled to other units already along the roadside. They followed.

Soon a jeep arrived, driver Sam. Two officers skidded to a halt. They told Brooks that the rebels had set up a command post six miles down the road. Would he go there to deal with the leaders?

Leaving these officers to direct the evacuation and starter, Brooks drove to the rebel command post. Two machine guns pointed at us. As we approached, they opened fire just enough for the jeep to squeal out.

The rebel leaders had now, here the night before, to watch the attack on the precinct. I spotted Lonnie in the hundreds of green "playmates" and their heavy weapons. I asked myself again, "What am I doing?"

And I wondered if I would ever get out alive.

As we searched for the leaders, a truck arrived carrying closely guarded Vietnamese prisoners—mostly young civilians. Soon after, Captain Collespie and Y Jhon arrived with the three truckloads of mortars. Ed Brooks had persuaded to leave the radio station.

Just then Brooks spotted the mortar on the balcony of a neighboring house; their hard faces drained of color. Waving their pistols, they started discharges at the retreating troops—for us at this frustration of the revolt. Brooks said, "Let's give them a little time to cool down." He sat on a bench in the center of the compound.

As Collespie walked from his truck, he scanned the Vietnamese captives, securely tied to a table set at legs on the ground.

I couldn't bear to see Collespie coolly walk by, drew his knife, and started cutting their bonds. Y Jhon, at his side, helped him. A Special Forces surgeon, Capt. Richard Hasket of the Town of America, went out. A few rebels threatened Collespie with the revolvers. I could hear snatches snapping of automatic weapons, but he continued cutting away until he freed them all. Wood a mortar.

When he had finished, Collespie addressed a rebel interpreter. "Why do you risk all these lives?" he demanded. "Don't you know you may all be killed?"

The interpreter struggled. "If I die here, the grass will be greener. The tree will grow taller, and the land will be free."

As a jeepload of other rebel leaders came through the gate, Y Jhon's face twinned with fearful recognition. These men, he explained to Captain Collespie, were Communist mortiguards from Cambodia. They disappeared inside a house at the center of the compound. A conversation with the rebel leaders was clearly impossible for us.

#### "High Committee" Lists Rebel Demands

Stricken by the events of the day, I declined to leave this problem to the soldiers. I told Collespie I would like to leave. He said, "We may as well be in a hurry to get out if you will. The rebels who are a journalist and will tell the story of the uprising to the world."

With rebel permission, I happily boarded a messenger jeep and unopposed we headed back to Ban Me Thuot. In the moisture between my pants and the newspaper, I felt a hot iron brand.

Once in the city, I checked in for the night





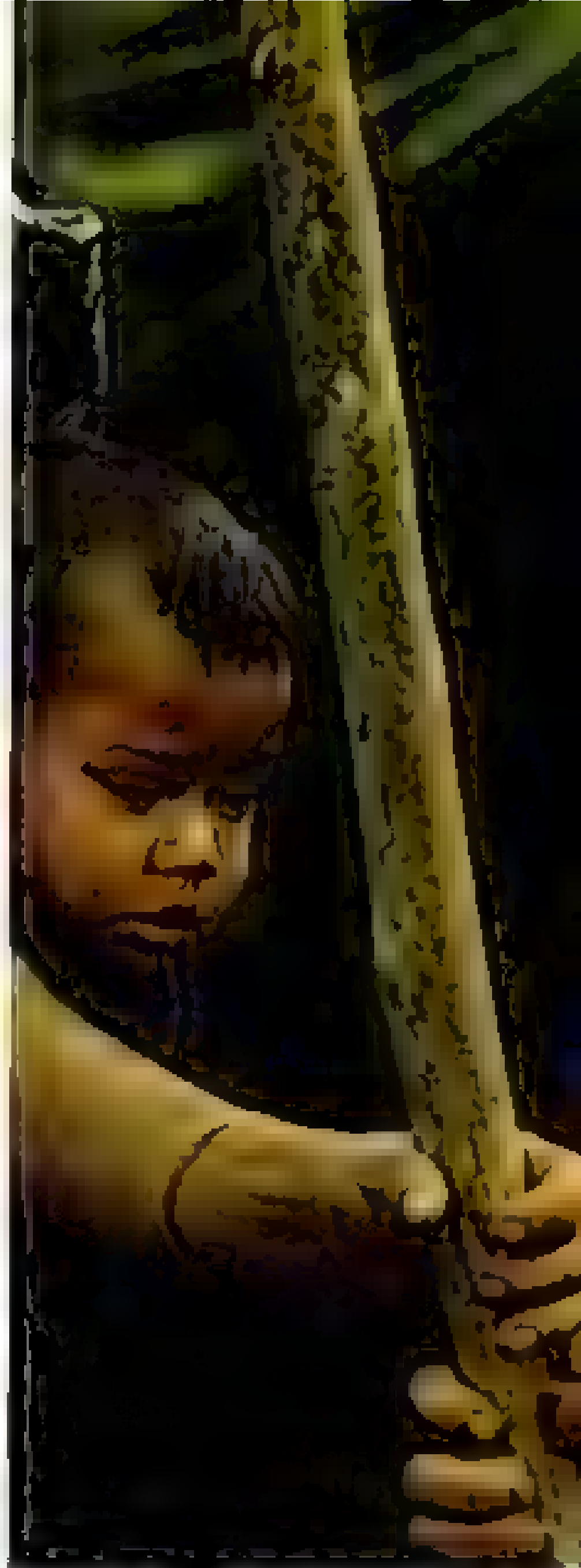
Figure 1. A group of people in military uniforms sitting in a circle on the ground outdoors. The group is composed of men and women, all wearing military uniforms. The person in the center is wearing a white shirt and dark pants. The background shows a line of trees and a wooden fence.

Figure 2. A group of people in military uniforms standing in a line outdoors. The group is composed of men and women, all wearing military uniforms. The person in the center is wearing a white shirt and dark pants. The background shows a line of trees and a wooden fence.



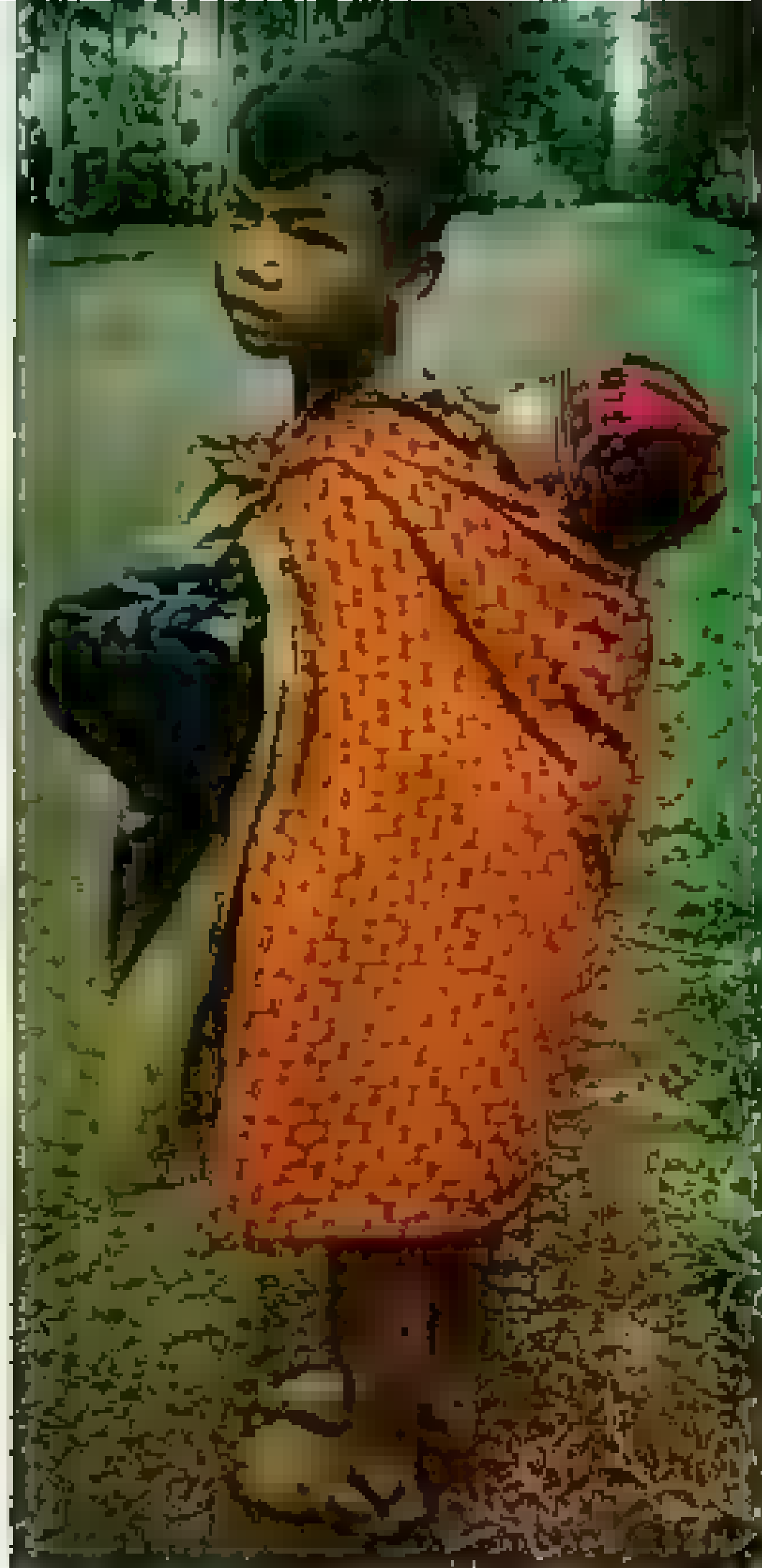
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Winning match. The winner is New York.

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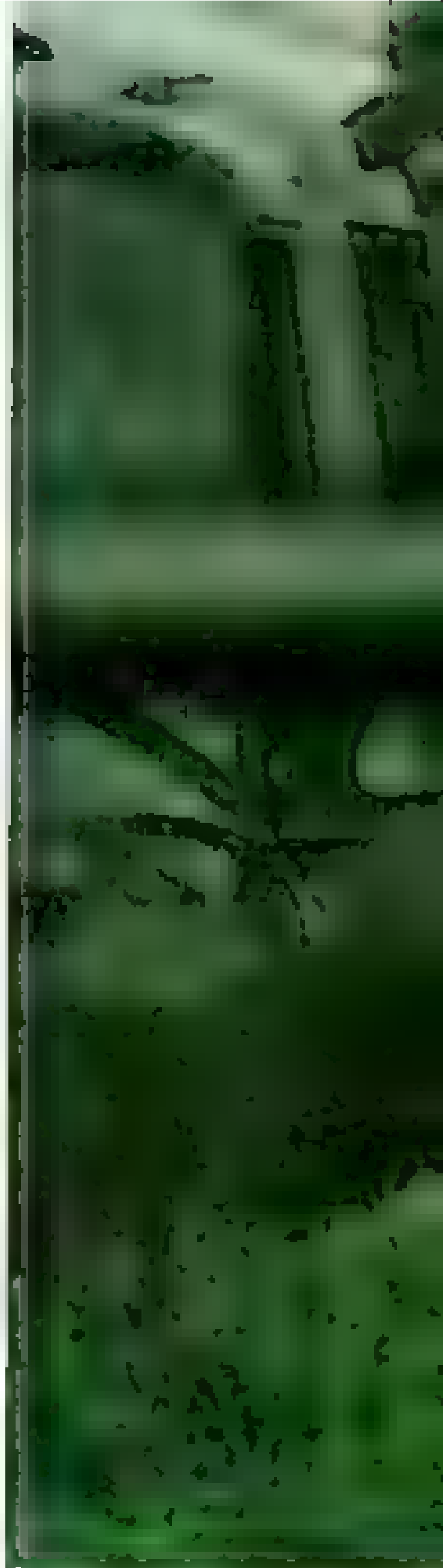
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Page 4 of 4

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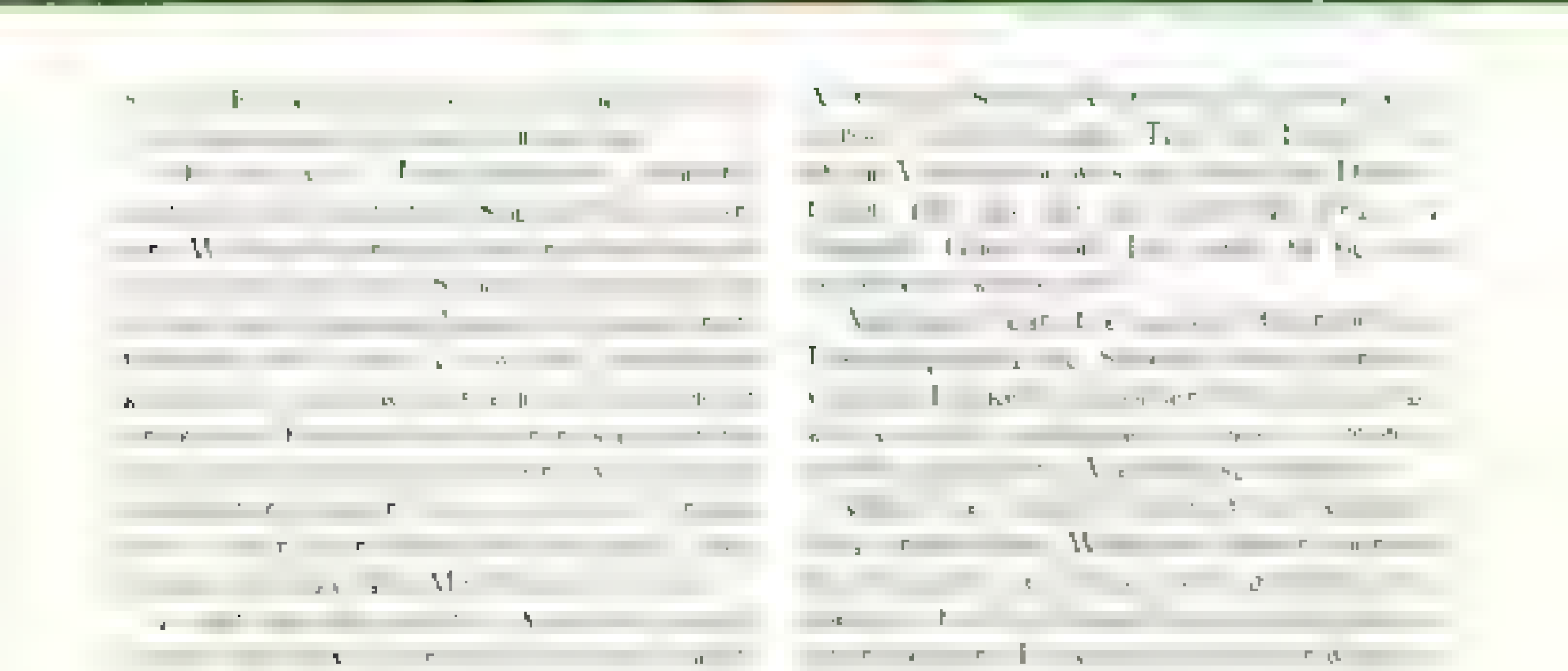
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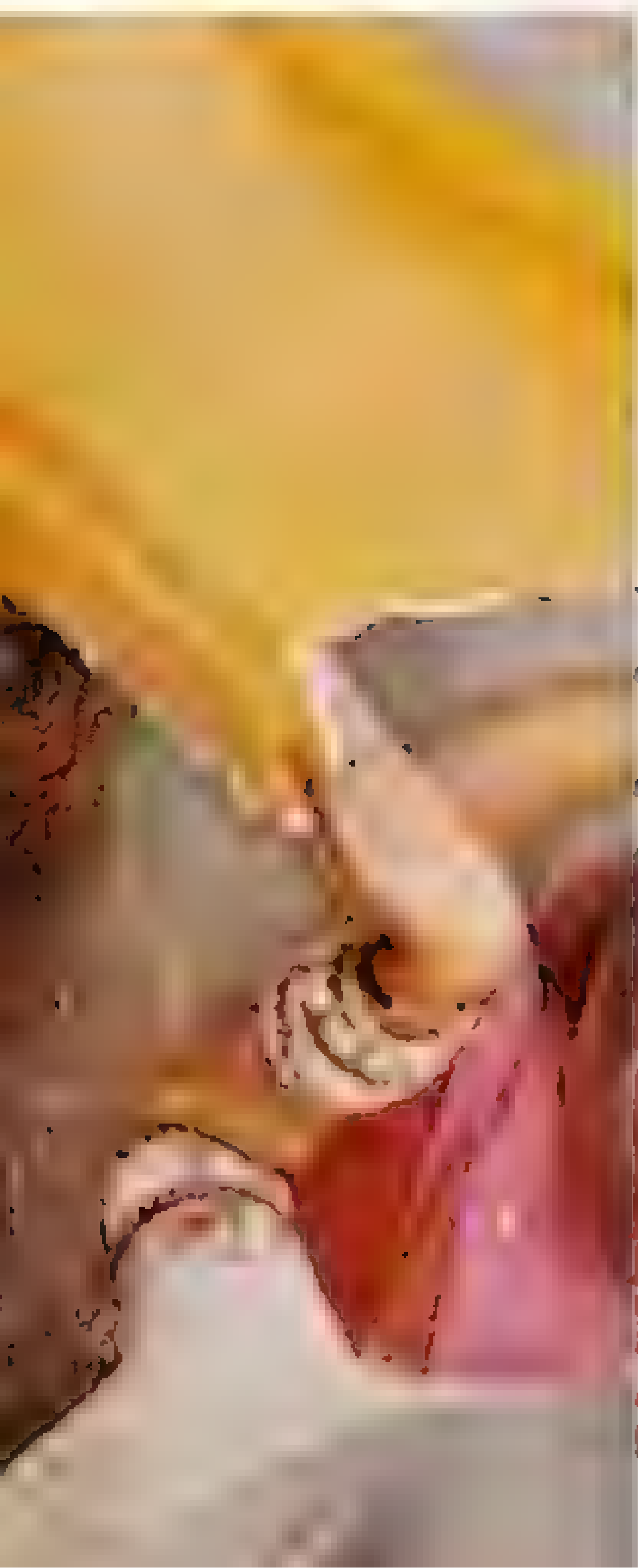


# Royal Wedding at



# Jaisalmer

Picture Story by  
MARILYN SILVERSTONE



**O** F AN AGE THAT HAS ENDED  
the sunset was fading away

For sunset glory in four days of  
celebration. K. K. N. is a  
member of the  
The bride's  
society of the temple.

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1. The first group of variables includes the variables that are used to define the sample, such as the year, the country, and the industry.









## What are the main points?

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(1)  $\lim_{n \rightarrow \infty} \frac{1}{n} \sum_{k=1}^n f\left(\frac{k}{n}\right) = \int_0^1 f(x) dx$   
 (2)  $\lim_{n \rightarrow \infty} \frac{1}{n} \sum_{k=1}^n f\left(\frac{k}{n}\right) = \int_0^1 f(x) dx$   
 (3)  $\lim_{n \rightarrow \infty} \frac{1}{n} \sum_{k=1}^n f\left(\frac{k}{n}\right) = \int_0^1 f(x) dx$

[illegible]

Table 1. *Continued*





1. The first part of the text is a list of names and dates.

2. The second part of the text is a list of names and dates.

3. The third part of the text is a list of names and dates.



4. The fourth part of the text is a list of names and dates.





Figure 1.1.1

Figure 1.1.2

Figure 1.1.3













# ANDREW JACKSON

## FROM ANDREW JACKSON

James M. Smith, Jr., Editor  
The National Republican  
Washington, D.C.  
Dear Sir:  
I have the honor to acknowledge the receipt of your letter of the 10th inst. and in reply to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,  
Yours, &c.

James M. Smith, Jr., Editor  
The National Republican  
Washington, D.C.  
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# Andrew Jackson

SEVENTH PRESIDENT 1829-1837

ANDREW JACKSON'S inauguration in March, 1829, celebrated the coming into political power of a new America. Farms and plantations were spreading rapidly westward beyond the Mississippi River; new-born cities were revolutionizing commerce and manufacturing.

Country-side and cities alike stirred with ambitious men striving to improve the old system in overthrow older, more aristocratic political and economic institutions. To President Jackson they found their hero and their spokesman. Jackson, in his rise from a Carolina log cabin to the Hermitage, a stately plantation home in Tennessee (page 87), embodied their aspirations; in his insistence that Americans should enjoy equality of opportunity, he voiced their creed.

More new than any of his predecessors, Jackson was elected by popular vote, and as President he acted as the chief spokesman of the common man.

## Nine-year-old Shows Off His Learning

Jackson was born in the Waxhaws, a backwoods settlement on the border between North and South Carolina in 1767, two years after his Scotch-Irish parents had migrated from northern Ireland. His father died shortly before he was born. Jackson treasured a book, and liked to recite with pride that as a 9-year-old he had read a newly arrived copy of the Declaration of Independence to a group of illiterate frontiersmen.

At 13 he served as a messenger with American troops, surviving several skirmishes unscathed; he refused to punish a British officer's wounds and received a soldier's blow on his head that scarred him for life. His mother died when he was 11. In his adolescence he read, wrote about two years, and was later interested in cock-fighting, horse racing, and wrestling. Jackson and a friend created the first party to traverse a new wagon road to the settlement of Nashville in the fall of 1788. Remark-

able for his physical courage and stamina rather than for his legal knowledge, Jackson commanded respect on the frontier. He rapidly established himself as one of Tennessee's outstanding young lawyers.

In many respects Jackson was unrefined; he fought or pleaded—fiercely jealous of his honor, he engaged in brawls and in the duel, started a man who cast an unjustified slur on his wife Rachel (page 88).

He speculated in land and assorted business ventures, loaned money to banks and eastern financial interests in need of funds, but prospering sufficiently to buy slaves, plant cotton, and add a splendid manor. He was the first man elected from his state to the House of Representatives, served briefly in the Senate, and became a twice notable for his pragmatism and touch to the law. In 1801 he was elected to be major general in the Tennessee Militia by the field officers.

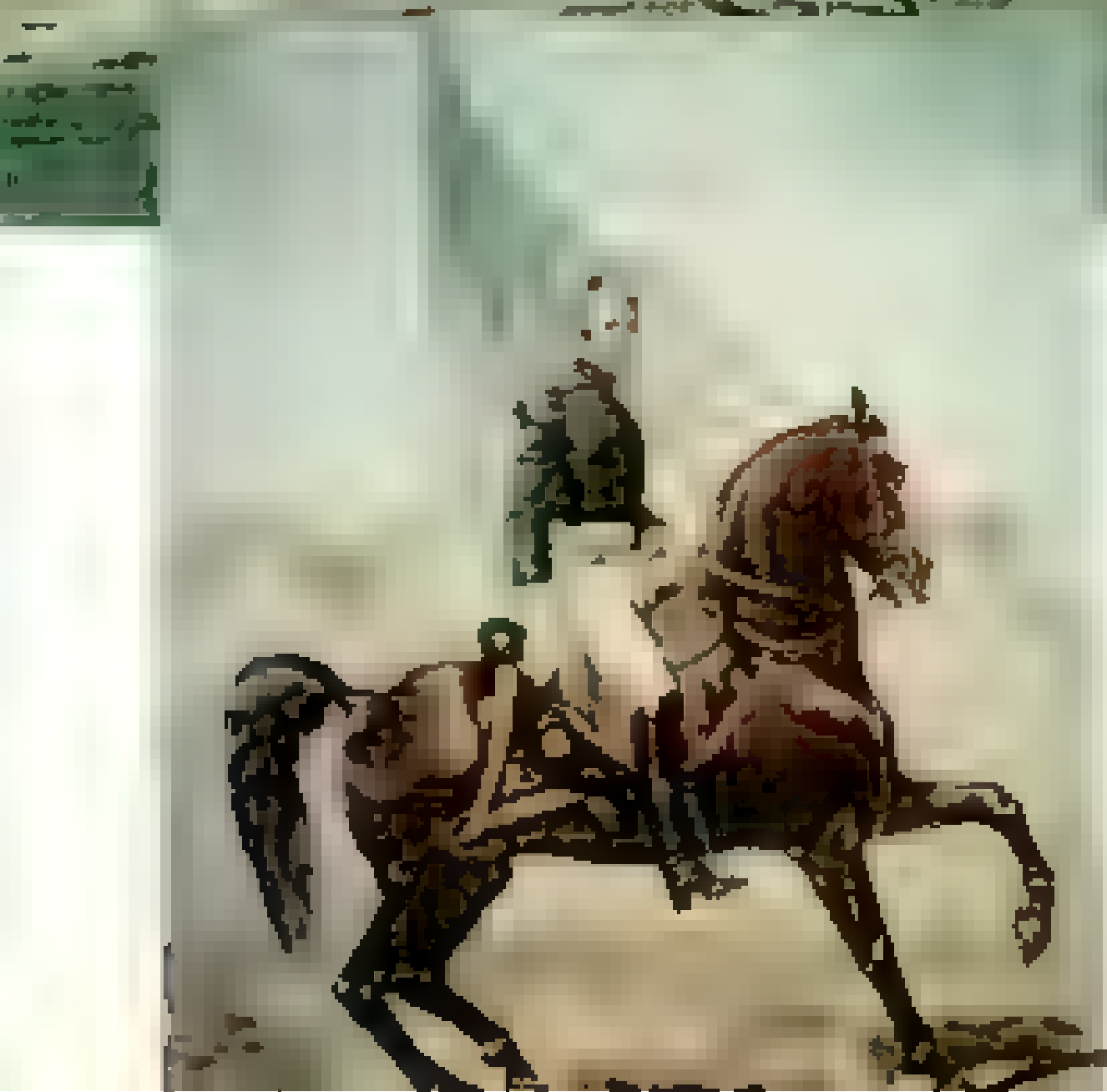
Taking to the field despite a wounded arm, he persuaded the Creek Indians for their misdeeds of frontiersmen and in 1814 earned a commission as major general in the United States Army. In leading an over-disciplined and victorious regiment from the southwest frontier, he beat back seasoned British troops that had earlier won victories under Wellington in Europe. Jackson's final triumph in the Battle of New Orleans, January 8, 1815, established him as the hero of a general of the Americans (pages 84-5).

## Living in Nearly Wrecked White House

In the chaotic politics of the 1820's, as national party lines and issues were obliterated by sectional tensions, the increasing number of voters led to the building of new-style parties and factions in state after state. A read in 1824 some of these called "mud-slickers" in 1828 still more used his standard as a guide among their allegiance to "Old Hickory," who could not tolerate a use for scarcely any of the troublesome issues of

Tempestuous Andrew Jackson—whose frontier reputation earned him respect from the hearts of the people—Joan Quincy Adams reconstituted when Harry Calhoun, a doctorate of laws and a politician who could not handle speech on his own terms, Jackson kept a close hand on the reins and was not without directing to his own in another. He often clashed with Congress, for not abating striking of the war at Mexico, and his the end of his presidency's strengthened the office of the President.





Threats to the validity of the study are discussed below.

[illegible]

### Abstract

1. The first part of the document discusses the importance of maintaining accurate records of all transactions, including sales, purchases, and expenses. It emphasizes that proper record-keeping is essential for determining the correct amount of tax liability.

2. The second part of the document outlines the various methods used to calculate the taxable income of an individual. It includes a detailed explanation of the standard deduction and the itemized deduction, as well as the rules governing the treatment of capital gains and losses.

3. The third part of the document describes the different types of taxes that are levied on individuals, including the federal income tax, the state income tax, and the local property tax. It also discusses the various exemptions and credits that are available to taxpayers.

4. The fourth part of the document provides a comprehensive overview of the tax system, including the various forms and schedules that must be filed with the tax return. It also discusses the consequences of non-compliance with the tax laws, including the imposition of penalties and interest.

5. The fifth part of the document discusses the various methods used to collect taxes, including the withholding of taxes from wages and the collection of taxes through the sale of property. It also discusses the various methods used to enforce the tax laws, including the use of the Internal Revenue Service (IRS) and the courts.

6. The sixth part of the document discusses the various methods used to determine the value of property for tax purposes, including the use of the fair market value and the adjusted taxable gift value. It also discusses the various methods used to calculate the value of a decedent's estate for estate tax purposes.

7. The seventh part of the document discusses the various methods used to calculate the value of a decedent's estate for gift tax purposes, including the use of the fair market value and the adjusted taxable gift value. It also discusses the various methods used to calculate the value of a decedent's estate for estate tax purposes.

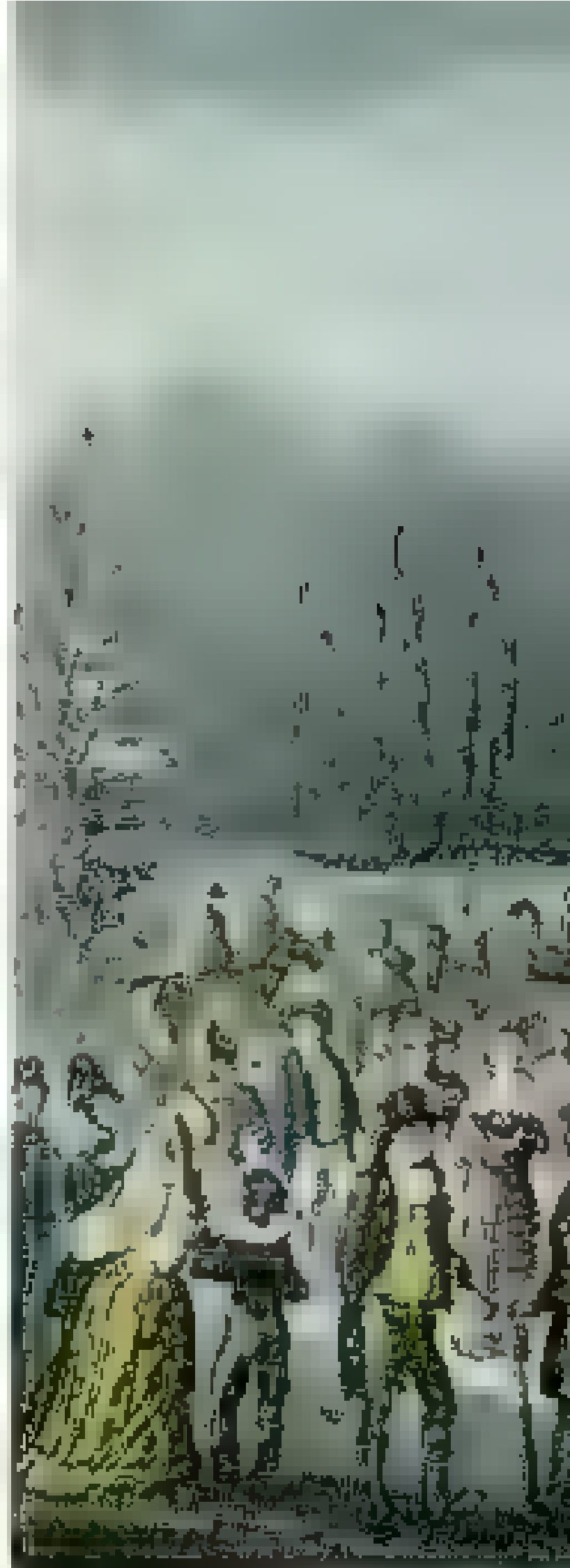
8. The eighth part of the document discusses the various methods used to calculate the value of a decedent's estate for gift tax purposes, including the use of the fair market value and the adjusted taxable gift value. It also discusses the various methods used to calculate the value of a decedent's estate for estate tax purposes.

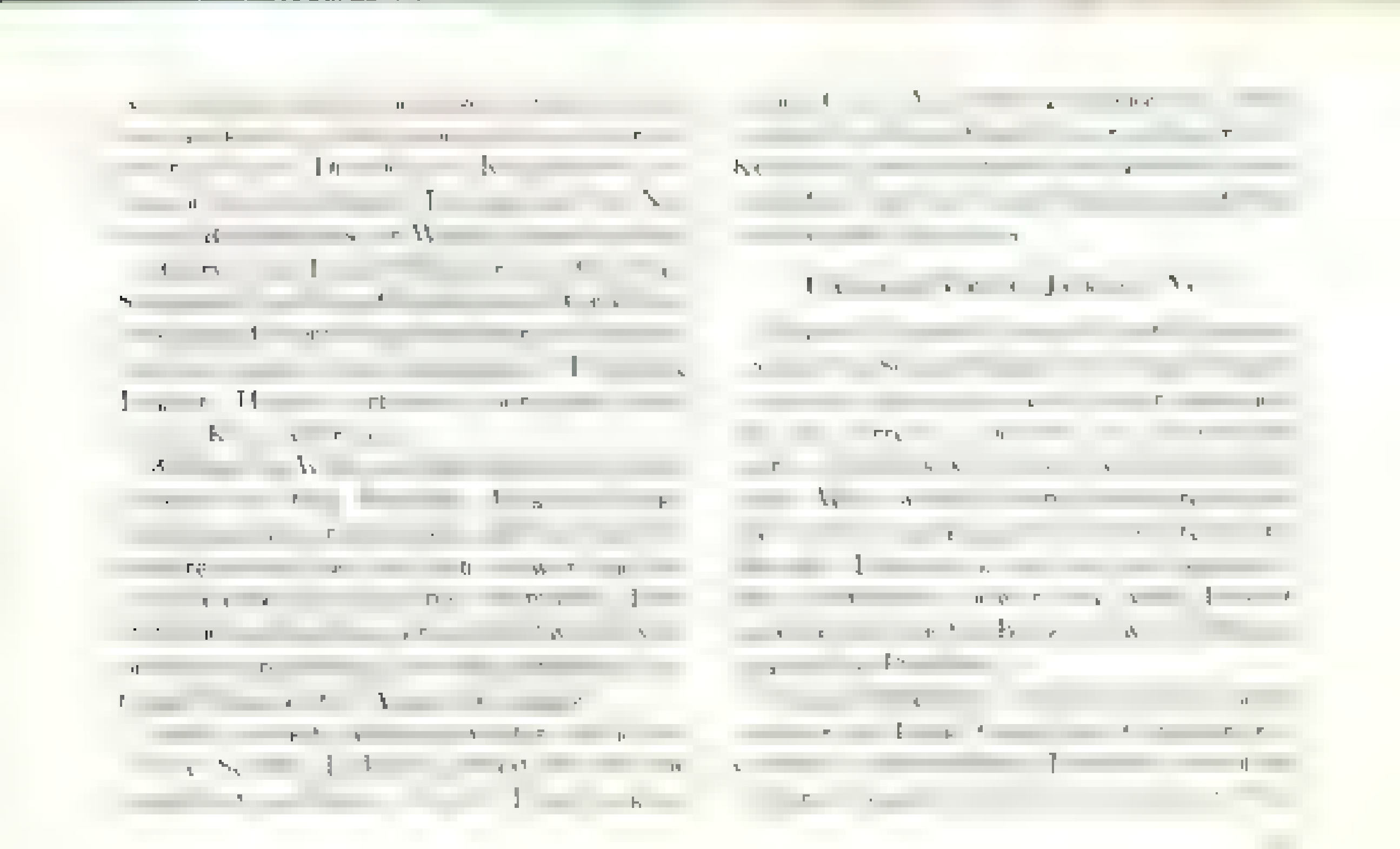
9. The ninth part of the document discusses the various methods used to calculate the value of a decedent's estate for gift tax purposes, including the use of the fair market value and the adjusted taxable gift value. It also discusses the various methods used to calculate the value of a decedent's estate for estate tax purposes.

10. The tenth part of the document discusses the various methods used to calculate the value of a decedent's estate for gift tax purposes, including the use of the fair market value and the adjusted taxable gift value. It also discusses the various methods used to calculate the value of a decedent's estate for estate tax purposes.

6. Explain the difference between the following terms:  
 a. Primary                      b. Secondary                      c. Tertiary  
 d. Quaternary  
 e. Quinary  
 f. Sixth  
 g. Seventh  
 h. Eighth  
 i. Ninth  
 j. Tenth  
 k. Eleventh  
 l. Twelfth  
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## FOURTH PRESIDENT 1977-1981

... the to replace federal subsidies of internal improvements a position pleasing to his constituents, who were afraid the money would be used to construct roads run by the Erie Canal. By 1817, the

The historic Lincoln Hall of 1841 is now a Museum, insuring Liberty and Equal Rights with a strong mission. The position our country has achieved over Little Magician, Mississippians and surprised what I thought in the four or five decades of power, currency for private banks. The 1852 pamphlet and 1853 for reaction.

The staff soon became a power. To Jackson Van Buren suggested a way out of the impasse; he and then Eaton resigned, causing the Cabinet men also to resign. Jackson appointed a new and loyal Cabinet and sought to reward Van Buren by making him Minister to the Court of St. James's. Vice President Calhoun, as President of the Senate, cast the tie-breaking vote against the appointment, and thus a quarter of Van



John M. Goodnow,  
Othello Looker,  
Jacob Peter,  
James B. Cameron,  
David S. New

Buren in the eyes of western Jacksonians, who until then had scarcely known of his existence.

He was elected Vice President on the Jacksonian ticket in 1832 and nominated for the Presidency in 1836.

The Whigs tried to defeat Van Buren by running several candidates, each strong in his own section of the country, but Van Buren won 170 electoral votes compared with 124 for his four opponents combined. One of the Whig leaders, William H. Seward, exclaimed Van Buren's triumph: "The people are for him," Seward pointed out. "Not so much for him as for the principle they suppose he represents. That principle is Democracy."

In his Inaugural Address, Van Buren held up the American experiment as an example to the rest of the world. At that particular moment the experiment seemed highly successful, for the Nation enjoyed an unprecedented prosperity and serenity. But less than three months later the Panic of 1837 punctured the economic bubble.

The 19th-century cyclical economy of "boom-and-bust" was merely following its regular pattern, but Jackson's financial measures contributed to the crash. His destruction of the Second Bank of the United States had removed restrictions upon the reckless and inflationary practices of some state banks, while speculation in lands, based on easy bank credit, had swept the West. To put an end to this speculation, Jackson in 1836 had taken a deflationary step: he issued a Specie Circular requiring that lands be purchased with hard money—gold or silver.

### Nation Wracked by Five Lean Years

In 1837 hundreds of banks and businesses failed. Unemployment became serious in towns and cities. Thousands of speculators lost their lands. Railroad and canal construction almost halted, and several states temporarily repudiated their debts. For some five years the United States was wracked by the worst depression of its young history.

It did not occur to President Van Buren or his advisers that the Government should try to alleviate the crisis. They followed the policy

that President Jackson had initiated. If there had any effect at all upon the depression, it was to deepen and prolong it.

Declaring that the panic was due to recklessness in business and overextension of credit, Van Buren devoted himself to maintaining the solvency of the Government. He insisted the "money power" be cut off completely from access to Federal funds, and opposed not only creation of a new Bank of the United States but also the placing of Government funds in state banks. He fought for an independent treasury system to handle government receipts and disbursements. He cut Federal expenditures so deeply that the Government even sold the tools it had used on its public works.

### Symbols of Luxury Led to Defeat

Despite his modest background, Van Buren had developed a taste for elegance. He was only about 5 feet 6 inches tall, but trim and erect, and he dressed fashionably. An observer seeing him attire for church one Sunday in 1828, described him in these words: "He wore a black frock coat with a high collar, a white cravat was uttange with a red necktie, his waistcoat was of a pearl blue, his trousers were white duck, his shoes were morocco, his neatly fitting gloves were yellow kid, his long furled beaver hat with a broad brim was of a Quaker color."

As President, Van Buren rode in an olive-green carriage attended by Lyonesse footmen and pulled by fine horses with silver-mounted harness. These touches of luxury, beliving Van Buren's admirable accessibility, made him an easy target for the Whigs in 1840.

Out of office, Van Buren inclined more and more to oppose the expansion of slavery. Indeed, as President, he had blocked the annexation of Texas because it might bring war with Mexico and assure a won land to slave territory. In 1848 he ran unsuccessfully for President on the Free Soil ticket, and by the time of his death in 1862 had placed his faith in Abraham Lincoln. The House of History in Kinderhook preserves mementos of Van Buren the man and the President.

Twenty-nine-step tower of Van Buren's Lindenwald estate at Kinderhook, New York, overlooks the lush valleys of the Hudson River. For President Van Buren, born nearby, bought this farmhouse, turned it into a mansion, and added the Italianate tower in the hope that his home of retirement would become another Monticello. It never did—and survives today in private ownership. "Old Kinderhook," abbreviated to "O.K.," became the initials of a famous phrase.

anything that was all right.













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# Attack by Exhaust Shatters the St

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## Fireworks Killed 'us Dead as Sure as

When Harrison arrived in Washington, he delivered a 15-minute address. A 10-minute address, printed with classical allusions, Webster succeeded in outlasting him. Webster boasted in a jolly fashion that he had killed "seventeen Roman proconsuls" and as smelt, every one of them.

We later had reason to be gay for Mr. Mason, based on his language that he would be obedient to the will of the people as expressed.

He said of the Constitution, "I cannot conceive that by far the greater number of the people will

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but I would better understand the wants and wishes of the country than the present representatives, who spend a large part of their time in the State House, and are bound to the trivial local interests, and all

Whigs in Congress were confident that the President would accept their policies, he called Congress to meet in special session on May 31. But when he had been in office only three weeks, he concluded that developments into one national fire April 4, 1841, he was President.



# John Tyler

TENTH PRESIDENT

**J**OHAN TYLER was the first Vice President to die in office. The death of his predecessor, the contract is claiming that he should find out why its acting President, disabled him by the Article

Tyler refused to accept a mere regency and set a momentous precedent by insisting that he had succeeded to the full powers of his office. He presided the states rights cause in which he believed even though he soon lost himself a President without a party.

Born in Virginia in 1790, the son of one of Jefferson's friends and a lawyer, he was raised believing that the constitutional powers given to the Federal Government must be strictly or narrowly construed. He never wavered from this conviction.

Tyler attended the College of William and Mary and later studied law, serving in the House of Representatives from 1816 to 1821, he voted against most of the nullification laws of the time. After leaving the House he served twice as Governor of Virginia. Later as a Senator, he reluctantly supported Jackson for President in a choice of evils, but he carried many of his opinions and the seeds of destruction.

Tyler soon became one of the states' rights solidifiers in Congress. He allied with Clay, Webster and the newly formed Whig Party in opposing President Jackson. He resigned as Senator in 1836 rather than follow the instructions of the Virginia Legislature that he vote to expunge a Senate resolution censuring Jackson. In Virginia politics he was known as a Whig, but even though he disapproved of Clay's national issue program, he remained a personal friend of Clay.

## Tyler's Name Forces Southern Votes

It was the Whigs nomination of Tyler for Vice President in 1840, hoping that his name would bring to the polls southern states that are who could not stomach Jackson at the moment. The slogan "Tippecanoe and Tyler Too" and the flag-waving nationalism played a distinct southern section role.

Clay, trying to keep party leadership, emphasized his own views during the campaign. Webster proclaimed himself a "Jeffersonian Democrat." With the election not far distant, these labors met, and Tyler determined the President-elect. Old Tippecanoe was a bit disturbed, but agreed.

Man without a party, John Tyler did his course of the Virginia enlargement. The matter proved the first requirement.

As Texas, the frontier went to a troubled course. The veto of a bank of expansion, a more moderate of his and the party spurned him.

Jagged metal takes much of the trouble. Promotion in the Navy, a more of a failure. Tyler going to work to see the fitting out of a ship, a ship that made a name for itself. Tyler

He had to be seen who he came to be a second wife



Whole-sailed Independence Rock on  
rain, heavily traveled  
the Sweet  
River. The rock marks the only ad-  
venter for 50 miles west from Casper. Wy-  
oming is rich in scenery. Objects cannot be seen  
be told and accounts new. War on I-  
roquois, various in case of Indians in

Webster as Secretary of State and put four of  
sisters into the Cabin

Suddenly President Harrison was dead and  
"Uncle Tom" in the White House. He re-  
sumed the full powers and privileges  
of a President rather than a governor. Inter-  
preting the constitutional provisions to "Uncle  
Tom's" he even determined in his own  
words "I will go on. Whig victory."

Further, Tyler received Harrison's Cabinet  
and

last but not least, on

Tyler's executive act on the removal of  
the reports from the Bank of the  
United States. Whigs were optimistic that  
Tyler would consequently accept their pro-  
gram. They soon were disappointed.

Webster asked the President (as Tyler's  
son-in-law) whether he intended to  
continue Harrison's procedures. When Tyler  
refused to sign, Webster told him that Harrison  
agreed that at Cabinet meetings  
questions were "to be decided by the majority  
(or votes) each member of the Cabinet  
and the President having but one vote." Tyler  
replied "I as President shall not be  
or try to be a dictator."

When Senator Clay brought forward the  
resolution that had been discussed  
during the campaign, Tyler interpreted it  
as a bill to

the bank. But Clay would not  
budge. He continued a majority vote  
but the President vetoed the act. Tyler  
not accept Tyler's

Tyler vetoed Clay's bill to establish a national  
bank with branches in several states. A sec-  
ond bank bill, similar to the first, passed  
Congress. "I will crive him before me," Clay  
vowed. But again the President vetoed it.

### First Impeachment of A Attempt Fails

In retaliation, the Whigs expelled Tyler  
from their party. And if the Cabinet re-  
sisted but Webster, who suspected Clay's hand in  
the dissolution of the Cabinet and distrusted  
the Secretary, continued for power. Webster  
therefore, stayed on as Secretary of State and  
Tyler, who had no intention of abandon-

replaced his Cabinet members and



year later, when Tyler vetoed a tariff and a  
repealment resolution against a Prohibition  
was introduced in the House of Representatives  
for the first time in American history.  
A committee headed by Representative John  
Quincy Adams reported that the President  
vetoed the act, however, but the resolution  
passed.

Despite their differences, President Tyler  
and the Whig Congress enacted considerable  
positive legislation. In the spirit of compromise,  
the President in 1841 signed the "Log  
Cabin" bill with a condition: a settler to claim  
160 acres of land he or she was allowed to  
sell for sale, and later pay \$1.25 an acre for  
it. In foreign affairs, the Webster-Ashburton  
Treaty ended a dispute between the United  
States and Great Britain over the Canadian



boundary, and at the end of the administration Texas was annexed.

After becoming president, Tyler was an active participant in his official intercourse with the world.

He was tall, thin, and somewhat bald.

He was somewhat slender and shaven, with thin hair. His light blue eyes were keen, and he had a happy smile.

### Ex-President Helps Create Confederacy

The ex-president was a strong supporter of states' rights.

When Lincoln increased the secessionist movement toward the Civil War, Tyler was one of the first to resign.

He was a strong supporter of the

Confederacy.

He was a member of the House of Representatives in 1844 and 1845, and was Secretary of State. Later, he was a member of the Democratic Party. When

Lincoln was elected, Tyler was a strong supporter of the Union.

He was a member of the House of Representatives in 1844 and 1845, and was Secretary of State.

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# Z. Taylor

TWELFTH PRESIDENT 1849-1850

ZACHARY TAYLOR, acclaimed for his military victories in the Mexican War, was elected to the White House in 1849, and a President had to grapple with the acute political problems they had helped create.

Northerners and southerners disputed sharply whether the vast lands wrested from Mexico should be opened to slavery, and some southerners even threatened secession. Standing firm "Old Kentucky and Ready" was prepared to hold the Union together by armed force rather than promote a compromise of which he disapproved. In the summer of 1850 as he faced this issue, he suddenly died.

From his background, Taylor would have seemed likely to become a southern sympathizer. Born in Virginia in 1784, he was taken as an infant to Kentucky and raised on a plantation. He was a career officer in the Army, and his task was most often of cotton raising. His wife was in fact a former Fugitive Slave, and he owned a plantation in Mississippi.

Being a slaveholder could not make Taylor a defender of slavery or of southern sectional

aims, rather, his forty years in the Army imbued him with a strong nationalist spirit. He received a commission in the Regular Army in 1803 and spent the next 15 years fighting the frontiers against Indians, during the War of 1812 in the Indiana Territory during the Black Hawk War, and in Florida during the struggle against the Seminole Indians and escaped Negro slaves. In the Mexican War, as in much the same old fight against Indians, he won victories at Monterrey and Buena Vista.

## Folk distrusts Field of Battle

President Polk, attracted by Taylor's informal habits of command and perhaps by his Whiggery, as well, regarded him

as "a man of limited political and social resources and wholly unpolitical."

Restoring Taylor to northern Mexico, Polk sent an expedition under Gen. Winfield Scott also a Whig to capture Mexico City. Taylor increased thought that his victory at the battle of Buena Vista had opened the road to the city of Mexico and the halls of Montezuma, but others might have it then.

While not a remarkable general, Taylor possessed very common sense that U. S. troops

would not be wanted out year after year. "No soldier could have either the moral responsibility more readily than he. These are men more rarely bound to a general or a cause than a private. General Taylor never

Battered Army but helped give Z. Taylor Taylor his nick name "Old Kentucky and Ready." His popularity increased with work as a general in the Mexican War, a career of triumph and disaster that he never lost a battle. He had no doubt that he was worthy to lead the

first professional soldier in the White House. "I have achieved no glory and have no political experience. I am of every extreme and threaten the Union which Taylor and I have stood for. I am a free man and a free man. My motives have been misinterpreted," he







were uniform. But dressed himself entirely for comfort. He never shut up the field in which he was operating, to see through his own eyes the situation. He was very

with him. But on one score—particularly on the last field.”

Taylor’s homespun characteristics were not appreciated by Americans, particularly those who were a straw hat and a ranchman coat. He was considered to be but a rough and ready man, and like his rival, Winfield Scott, nicknamed “Old Fuss and Feathers.”

While Taylor’s long military record would appeal to northerners, his experience as a planter and his ownership of a hundred slaves would lure southern voters to his political background—the fact that he had never

been a member of Congress. In the 1850s, the Democrats could do Lewis C.

McLugan, who favored letting the residents of territories decide whether to become states or not. They wanted to know.

In the meantime, Taylor the rancher

and a few northerners who wanted no extension whatever of slavery formed a Free Soil Party that nominated Van Buren. It was a close election in which the Free Soilers pulled enough votes away from Cass, especially in New York, to elect General Taylor.

#### Role of Tharsh Supplains Whig Politeness

Although Taylor had subscribed so lately to Whig principles of legislative leadership, he was a denigrator of the idea to be a part of Whig leaders in Congress. To their distress, he acted at times as if he were above

the usual rules of political conduct. He was the author of a letter to the



of duty in his own judgment, regardless of official complicity.

As disheveled as always, garbed in a black frock coat and a topcoat that was too large, Taylor tried to run his administration in the same unadorned manner that he had used when he was in Kansas.

He accepted a series of minor setbacks as he tried to over the new process, as the fact that it appeared to the North rather than the South. He reasoned that the vast

majority would in the new era were to be free or slave was to encourage the regularization of the states, so we, try to find a the citizens could decide the question for himself was when they saw the law was not a bad one. Therefore, he urged settlers in New Mexico and in California, those who were a few and seeking forty acres—to draft

stations

Southerners were furious, since in the process of being set was likely to prohibit slavery.

Mexicans attack a town

Yulre and a man of the father of Hana, Yulre

February 1848, the father of Hana, Yulre

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members of both Houses of Congress were also

involved, since they felt the President was

approaching upon them with a striking force

even in a Union. Taylor's position ignored

every state side issue, the northern side

of the slave market operating in the District

of Columbia, which was federal territory

and a federal domain.

gent fugitives save law to prevent northerners

from running run was

Factor Threatens to Force Secessionists

Three of the great statesmen of the previous generation—Webster, Clay, and Calhoun—sat in the 31st Congress. Many

resolutions were made.

Clay was also there, eager to make the

workable to prevent the fever pitch, threat

ened to rend the Union. Clay's proposals for

made little headway, in part

because of the opposition.

few members of Congress would accept

himself, and in part because President Taylor

of the state hadly persisted in his opinion

that first California and New Mexico should

be admitted as states.

In February 1848, the cent Taylor held

his cabinet was

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The following table shows the results of the regression analysis for the dependent variable "Number of children in the household" (N = 1,000). The model includes the following independent variables: Age, Sex, Education, Income, and Marital Status. The R-squared value is 0.15, indicating that 15% of the variance in the number of children is explained by these variables.

Variable	Coefficient	Standard Error	t-statistic	p-value
Age	0.02	0.01	2.10	0.034
Sex (Male)	-0.15	0.08	-1.88	0.061
Education (High School)	-0.10	0.05	-2.00	0.045
Income (\$10,000)	0.05	0.02	2.50	0.012
Marital Status (Married)	0.30	0.10	3.00	0.002

The regression equation is:  $\text{Number of children} = 0.02 \times \text{Age} - 0.15 \times \text{Sex} - 0.10 \times \text{Education} + 0.05 \times \text{Income} + 0.30 \times \text{Marital Status} + \text{Constant}$ .

1. The first part of the document is a title page. It contains the title "THE HISTORY OF THE UNITED STATES OF AMERICA" and the author's name "BY JAMES M. SMITH".

1. *Pharmaceuticals*: The pharmaceutical industry is a major contributor to the U.S. economy, with sales exceeding \$400 billion in 2019. The industry is heavily regulated by the FDA, which oversees the safety, efficacy, and quality of drugs. The industry is also facing increasing pressure from payers (insurers and patients) to reduce costs, leading to a focus on value-based pricing and generic competition.

2. *Medical Devices*: The medical device industry is another major contributor to the U.S. economy, with sales exceeding \$400 billion in 2019. The industry is heavily regulated by the FDA, which oversees the safety, efficacy, and quality of devices. The industry is also facing increasing pressure from payers to reduce costs, leading to a focus on value-based pricing and generic competition.

3. *Biotechnology*: The biotechnology industry is a rapidly growing sector, with sales exceeding \$100 billion in 2019. The industry is heavily regulated by the FDA, which oversees the safety, efficacy, and quality of biologics. The industry is also facing increasing pressure from payers to reduce costs, leading to a focus on value-based pricing and generic competition.

4. *Healthcare Services*: The healthcare services industry is a major contributor to the U.S. economy, with sales exceeding \$1.5 trillion in 2019. The industry is heavily regulated by the FDA, which oversees the safety, efficacy, and quality of services. The industry is also facing increasing pressure from payers to reduce costs, leading to a focus on value-based pricing and generic competition.

5. *Healthcare Payers*: The healthcare payers industry is a major contributor to the U.S. economy, with sales exceeding \$1.5 trillion in 2019. The industry is heavily regulated by the FDA, which oversees the safety, efficacy, and quality of payers. The industry is also facing increasing pressure from payers to reduce costs, leading to a focus on value-based pricing and generic competition.

*[The page contains faint musical notation and lyrics, which are mostly illegible due to extreme blurriness.]*





Franklin Pierce

## FOR REFERENCE

**F**



Probably because the Democrats stood more firmly for the Union cause than the Whigs, and because the Whig candidate Gen. Winfield Scott was suspect in the South, Pierce won by a narrow margin of popular votes. Thus this handsome, well-educated but in active and inexperienced man found himself President at a time when the challenge of the office far exceeded his modest abilities.

### Tragedy Clouds Pierce Inauguration

Two months before he took office a railroad train in which he and his wife were riding was wrecked, and their only remaining child out of three, an 11-year-old boy, was killed before his eyes. He entered the Presidency grief-stricken and nervously exhausted.

In his Inaugural, Pierce proclaimed an era of peace and prosperity at home and vigor in relations with other nations. The United States might have to acquire additional possessions for the sake of its own security, he pointed out, and would not be deterred by "any kind forebodings or evil."

Pierce did only to make gestures toward expansion to excite the wrath of northerners, who accused him of acting as a cat's-paw of southerners eager for areas into which to export slavery. Thus there was a tension when he pressured Great Britain to relinquish its special interests along part of the coast of Central America, and even more when he tried to persuade Spain to sell Cuba.

Pierce was successful on a friendlyer direction. He continued efforts to open Japan, resident Edmore had sent Commodore Matthew C. Perry, who, acting with skill and amicably, had delivered a message in 1853 returning to Japan the next year. Perry brought back to Pierce a treaty opening two relatively inaccessible ports.

Pierce was also successful in negotiating a reciprocity treaty with Great Britain in 1854. It won concessions off Canadian shores for American fishermen in return for opening the United States to more Canadian products.

At home, almost every measure Pierce favored worked out badly in considerable part because the conflict between the North

and South created a first aid domestic policy. Favoring the South at nearly every point, Pierce signed a lower tariff measure and vetoed an internal improvements bill southern voters in Congress backed, a homestead bill favored by northerners.

But the most violent renewal of the storm stemmed from the Kansas-Nebraska Act, which repealed the Missouri Compromise and reopened the question of slavery in the West. This measure, the barometer of Senator Stephen A. Douglas, grew in part out of his desire to promote a railroad from Chicago to California through Nebraska. Already Secretary of War Jefferson Davis, a devotee of a southern transcontinental route, had persuaded Pierce to send James Gadsden to Mexico to purchase lands along the California route, which a northern railroad might best run. Gadsden, for \$10,000,000, purchased the area now comprising southern Arizona and part of southern New Mexico.

### "Bleeding Kansas" a Prelude to War

Douglas's proposal to organize western territories through which a railroad might run, caused extreme trouble. A proponent of "popular sovereignty," Douglas provoked attacks that the residents of the new territories could decide the slavery question for themselves. The result was a rush into Kansas by as southerners and northerners vied to obtain control of the territorial government. The North sent in more settlers, but Pierce tended to show his influence toward the South. Slavery broke out, and "Bleeding Kansas" became a prelude to the Civil War.

By the end of his administration, Pierce could claim "a peaceful condition of things in Kansas." But to his disappointment, the Democratic Party in 1856 refused to renounce him, turning to the less controversial Buchanan. Pierce returned to New Hampshire, leaving his successor to face the rising fury of the sectional whirlwind. Obstacles appeared even at home. Pierce died in 1869.

His home in Concord now maintained a museum by the New Hampshire Historical Society displays relics of the Pierce family.

Lifelong friends, Pierce and writer Nathaniel Hawthorne still as late as the Arch of Titus in the ruins of the Roman Forum. Meeting Pierce in Rome shortly after the President had left office, Hawthorne noted "many a white-winged bird" and a "something" he seemed to have passed away out of him, without saying any more. Hawthorne, who attended Boston's Concord with Pierce, believed in his first toward the Presidency by writing his biography.



Dr. & F. Co. 2.



James Buchanan

FIFTEENTH PRESIDENT, 1857-1861

JAMES BUCHANAN presided over a free-

cession after concession to the South regardless of the anger he provoked in the North. When the actual breakup of the Union began,

### Long Apprenticeship Led to Presidency

Born in 1791 in Franklin County, Pennsylvania, Buchanan graduated from Dickinson College. His childhood home, moved from its original site, now stands—after decades as museum and antique shop—on the campus of Mercersburg Academy.

Learned in law and diplomacy, Buchanan rose rapidly in politics. Only 27, he had already married his dear wife, Fanny, but broke her engagement and shortly thereafter died. He was the only President who never married.

Although a believer in states' rights views early in his career, Buchanan found it easy in the 1820s to switch his allegiance to Jackson. After five terms in the House of Representatives, he served as Minister to Russia, then for a decade in the Senate. He became U.S. Secretary of State and Pease's Minister to Great Britain. His service abroad, and then the Democratic nomination in 1860 because of his expediency, freed him from involvement in bitter domestic controversies.

In his marriage, Buchanan could have been a successful President. But in the bitter 1850s, when his was abysmally his failure—yet through experience, but because he grasped and played the political realities of the time. To satisfy, stillly, former in the high stock he wore at. In his words, he acted as if firm of reference to constitutional doctrines would some day bridge the widening rift. Buchanan tried to understand that the North would accept constitutional arguments which favored

the South. Not until he realize how sectionalism had realigned political parties.

This sectional cleavage, destroying the Whigs, had brought the rise of the Republicans. The Republican Party, formed in 1854 in protest against the Kansas-Nebraska Act, coalesced northerners and westerners alike with a southern opposition of the national administration—much as Free-Soilers, seeking a protective tariff. Farmers irritated because the South blocked a homestead bill, westerners wanting subsidies for internal improvements. Abolitionist commitment to fight the extension of slavery also united these diverse groups.

To militant southerners, the Republicans seemed an undesirable measure. The Democratic party ran John C. Fremont for President in 1856 and might have defeated Buchanan by picking a few additional votes in Pennsylvania and Illinois.

At the time of his inauguration, Buchanan thought that the crisis would disappear if he maintained a sectional balance in his appointments and could persuade the people to accept constitutional law as the Supreme Court interpreted it. The Court was then conservative, the legality of restricting slavery in the territories, and two justices lined up to tell Union what the secession would be.

### So, near a Critical Decision Forces North

Thus, in his inaugural address, President Buchanan said to the term "free, as soon as the day, a matter of but little practical importance" since the Supreme Court was about to settle it "speedily and finally."

Two days later Chief Justice Roger B. Taney delivered the notorious Dred Scott decision, asserting that Congress had no constitutional power to deprive persons of their property rights in slaves in the territories. Southerners were delighted, of course, but the crisis it created a fire in the North. Republicans promptly dedicated themselves to reversing it.

Continued anger for James Buchanan he eluded in lively White House parties and the West. When he got up, not threatening civil war, and his Presidency. So, only because of it, the white stock encircled his home, as and such white hair. For the often that after near sunrise or at dusk, taking a solitary walk down Pennsylvania Avenue.







THE GARDEN OF THE GARDENS

W. H. H. H.



THE MAKING OF AN ASTRONAUT

# The Making of an Astronaut

By ROBERT R. GURUTH

THE MAKING OF AN ASTRONAUT

THE MAKING OF AN ASTRONAUT















The first thing I noticed when I stepped out of the car was the heat. It was a scorching 90 degrees Fahrenheit, and the sun was beating down on me. I had heard that the weather in the desert was terrible, but I didn't realize how hot it would be. I was wearing a light-colored shirt and shorts, and I felt like I was being roasted. I took a deep breath and tried to ignore the heat. I was here to do some research, and I had to get used to the environment. I walked for a few minutes, trying to get my bearings. The landscape was flat and open, with no trees or buildings in sight. I saw a few small, dark rocks scattered across the ground. I was starting to feel a bit disoriented. I had no idea where I was, and I didn't know what I was doing here. I was just a student on a field trip, and I was supposed to be studying the geology of the area. I was supposed to be learning about the different types of rocks and the processes that shaped the landscape. But now, I was just a lost tourist in a hot, empty desert. I was starting to feel a bit nervous. I was alone, and I didn't know what to do. I was supposed to be here for a week, but I didn't know if I was going to make it. I was starting to feel a bit like I was in a trap. I was surrounded by a vast, empty landscape, and I was all alone. I was starting to feel a bit like I was in a prison. I was surrounded by a vast, empty landscape, and I was all alone. I was starting to feel a bit like I was in a prison. I was surrounded by a vast, empty landscape, and I was all alone.

### Examining rock strata





1. The dress



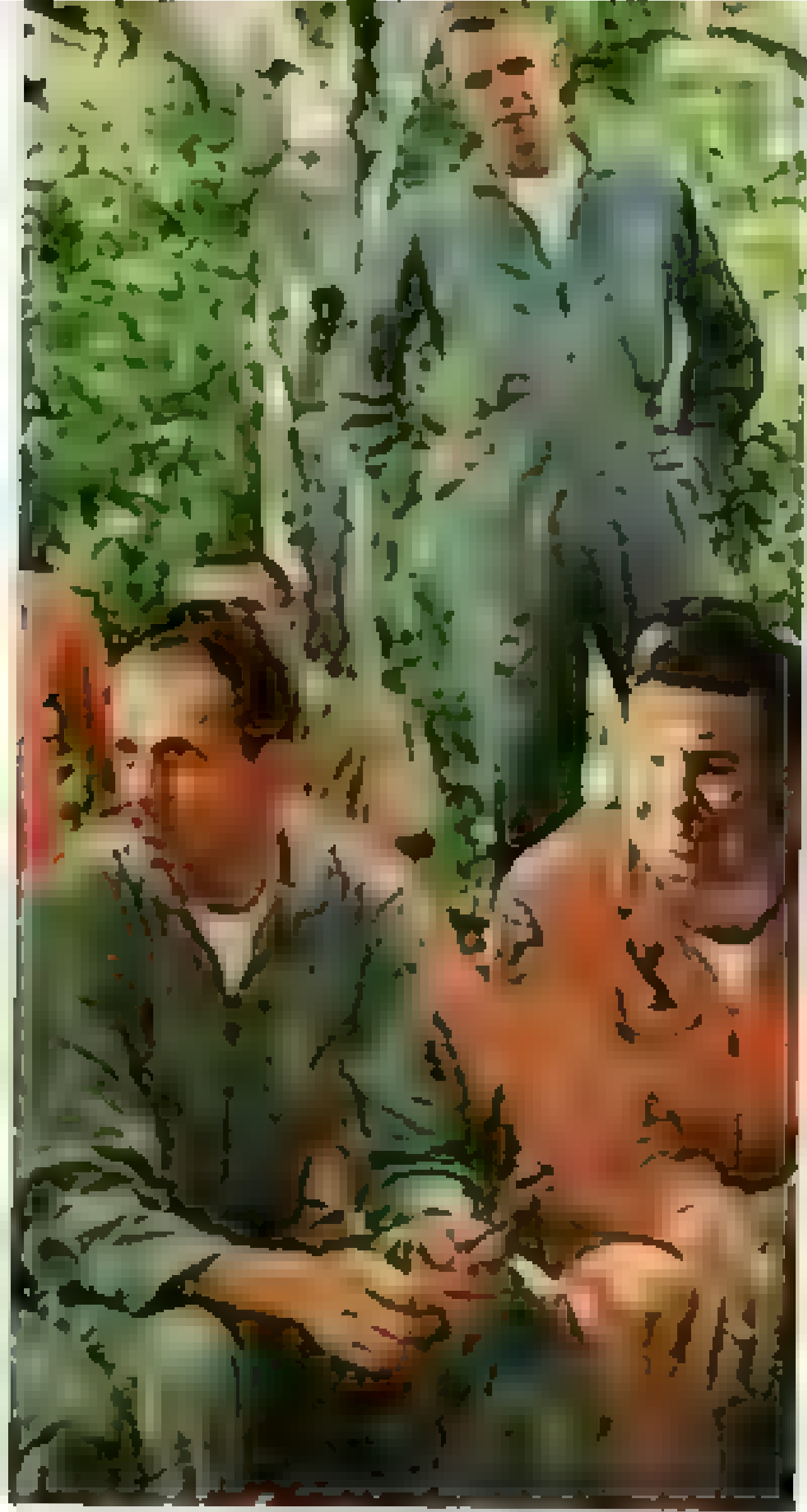


Photo of person in green shirt

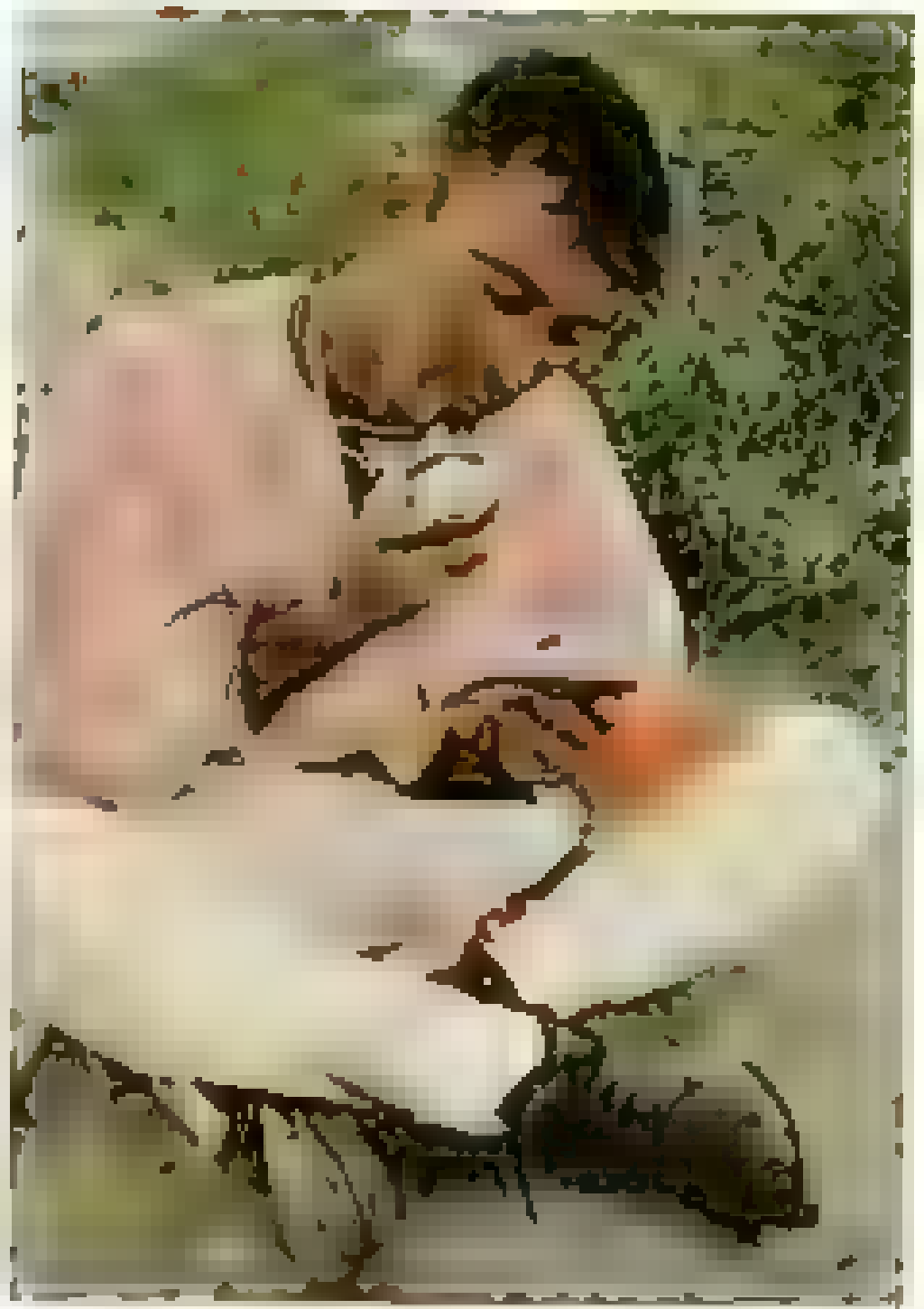


Photo of person in pink shirt



Photo of person in pink shirt

The country's most experienced engineers and scientists supported by nearly 1,200 technicians, administrators, and workers. Best as training component of spacecraft, our people—space advances, research projects. They are spending much time in the classroom both teaching and being taught.

They spend 50 hours a week for two to five years training for a single flight mission. Each crew will be tested while for a vehicle costing more than the entire training program for all the astronauts.

We provide only postgraduate training for astronauts. Their preparation really began years ago in college where most of them did a good amount of science. Their prime flight training will last as long as ten years as jet pilots. Many have had a graduate course in test pilot school.

Experienced pilots. They have excellent head, emotional stability and coolness under pressure. They have piloted aircraft under the most dangerous circumstances. They have flown at combat. They have faced war and death.

Our original members, including six of our original seven man Mercury team, nine "intermediate" class members—eight a good for the two man or man flights, and 14 of our original 14 "freshmen" just completing their first full year of prime training. Later this year we will select a dozen or so additional astronauts with emphasis on their scientific background.

#### Studies Include Comets and Computers

Our Astronaut Training Program covers a lot of ground.

*The Spacecraft.* Each man must become thoroughly familiar with all the space vehicles, how they are built and how they fly.

*The Space Environment.* Each must learn to feel at home in the weightlessness of space, the weak lunar gravity, on a one-axis blast of earth. The shifting temperature extremes, and the multiple stresses of launch and re-entry.

*Space Survival.* Each must learn how to eject himself from his spacecraft should something go wrong during launch or re-entry.

and to survive wherever he lands in the water, desert, or jungle, and, most of all,

*Spaceman Science.* Each must become an observer with a knowledge of astronomy, in order to bring back scientific information.

In 1968, about everything from comets and comets to computers and communication.

But astronauts need more than books and lectures. Spacecraft change as new systems are added and systems modified. Astronauts face the problem that it is almost an old Soviet friend who said "I have hardly learned to say you and already they are riding it proved."

The complexity of the program is such that one of the best ways to keep up to date is to work right with the engineers who design the spacecraft. This is one of the advantages of having the astronauts train at our center side by side with the skilled scientists who manage our spacecraft program. By sitting in engineering design meetings, the astronauts hear of modifications as soon as they are made.

One man cannot hope to attend all engineering

meets but he can see the whole picture and see the whole picture ahead of his opponents.

As spacecraft systems become more complex we must use more of the astronaut's time for training.

Take that crewman, now known as John. Jr. and Charles A. Bassett and Charles A. Freeman, who were 20 seconds of weightlessness in a KC-135 jet tanker over Wright Patterson Air Force Base. As the plane flies the crew of a spacecraft, the space men "work" almost off the wall with the instructor. Instructor Philip A. K. Freeman, who is the chief of the Astronaut Training Program, said that Freeman was shot killed in a jet plane crash October 31, 1968.







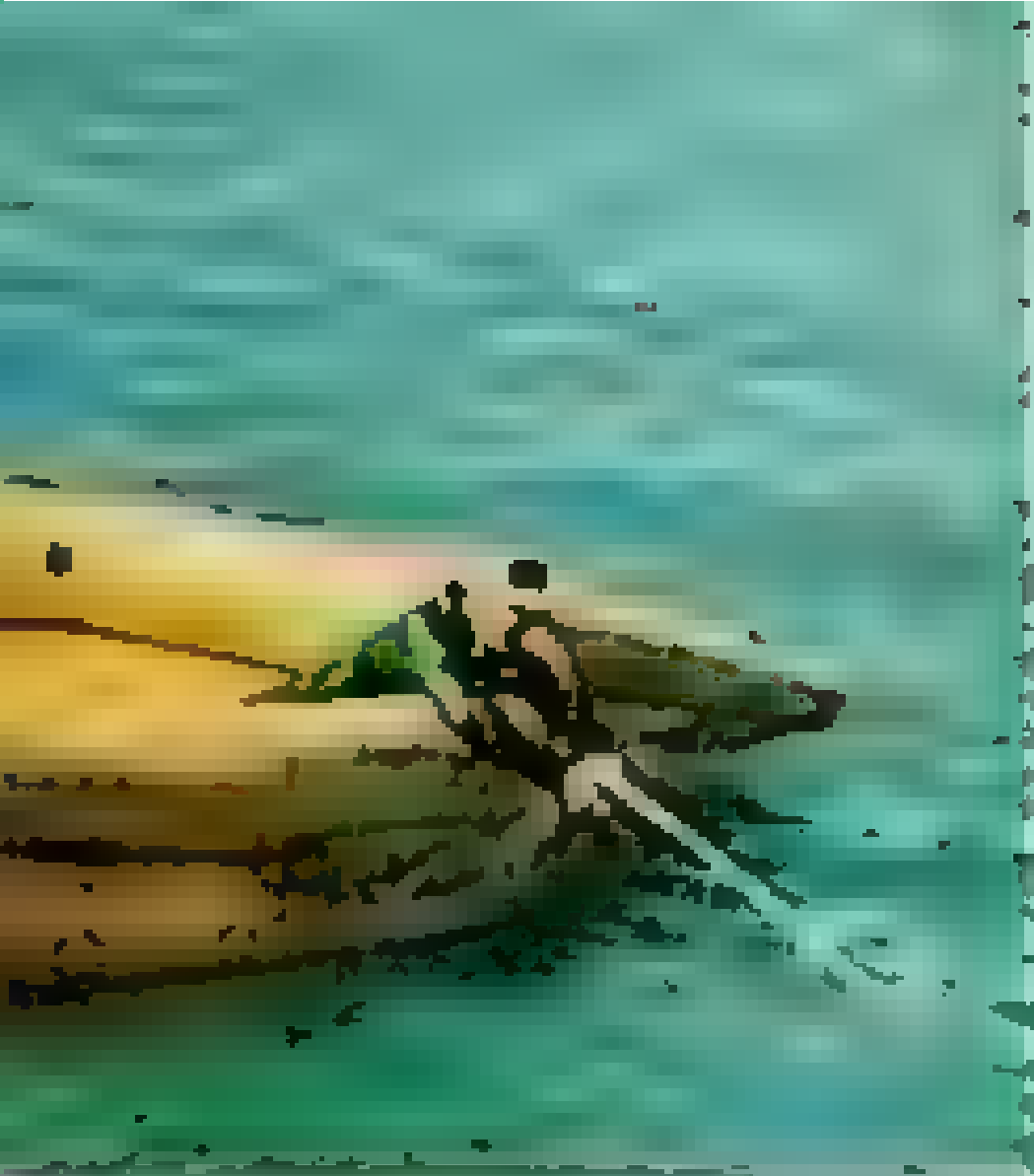
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The idea of simulation is not new. The Royal

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971). The concentration of chlorophylls was expressed as  $\mu\text{g mL}^{-1}$  of the sample.

1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

1. *Phragmites australis* (Cav.) Trin. ex Steud.

1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.

to reveal the commercial status of the Agency.

1. *What is the main purpose of the study?*  
 2. *What are the research objectives?*  
 3. *What is the significance of the study?*  
 4. *What are the limitations of the study?*  
 5. *What are the conclusions of the study?*

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Further, I found that the same "language" was used

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible][illegible]

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1. *Chlorophyll a* (Chl *a*)

roughly as the instructor and the trainee through its paces.

"4, 3, 2, 1, 0—off!"

With a simulated roar of Titan II rocket engines, your imaginary flight begins.

The spacecraft clock is running, and now the diameter needle comes off the peg as the Titan rumble is way skward.

Then, seconds after lift-off, the black and white eight-ball attitude instrument is a sight is to the left and then downward as the rocket arcs over and heads down range from Cape Kennedy.

"Two minutes thirty seconds. Stand by for SEC (1)." SEC (1) is the first stage engine cutoff.

A green light flashes on, indicating booster engine cutoff. In a moment, a green light and a tone confirm that the Titan's second-stage engine has come to life.

Five minutes, thirty seconds, go—looks green. Stand by for SEC (2).

The read-out display of Gemini's timer slowly counts the seconds to the point of sub-rocket-engine cutoff. Now the engine moves way to the side, and you are in orbit, skidding the earth at a speed of some 17,500 miles an hour.

I remember the Apollo 11 mission was once asked what part of the mission was the most difficult. The less the part between lift-off and landing was replied.

### LEM Pilot Must Land Carefully

Through the cockpit, the lunar surface is the Apollo simulator was surprising. Stanley Abernethy, chief of NASA's simulation, likes to tell visitors, "It will have everything, including—interior—a bathroom and a kitchen sink."

More than twice as large as the Gemini trainer, the Apollo environment will actually consist of two units: the simulators of the Command Module and the LEM.

Among the many impressive features, an outdoor window display gives the crew a panoramic, make-believe journey through 40 million miles of space. Nine units of optical equipment produce this celestial extravaganza. The Apollo 11 mission will be a star

traced their critical star navigation and moon landing.

Though the Apollo simulators are not yet operational, we can get a good feel for what the moon landing in the LEM will be like in our Command and Control Division. Stepping through a doorway, one enters a cabin some what like the bridge of a ship. Instead of a ship's wheel, we find switches that can begin a make-believe landing.

Through a triangular window on the left stares a nightmarish surface—red and yellow crosses and arrows grouped in squares like a patchwork quilt. This particular device cannot simulate the valleys and plains of the moon, as the actual LEM simulator will do, so it creates a completely abstract surface in black color.

### Docking Trainer Bides Cautious of Air

Test pilot James Bruck describes the landing problem. "The autopilot starts you carrying toward the lunar surface. You take over at 200 feet, as the LEM rushes downward. Your job is to slow it with your descent engine and hold for a safe landing in a safe place—and you have only two minutes to do it. After that your landing fire burns out. Without power, and without air or parachute to slow you, you will smash into the lunar surface."

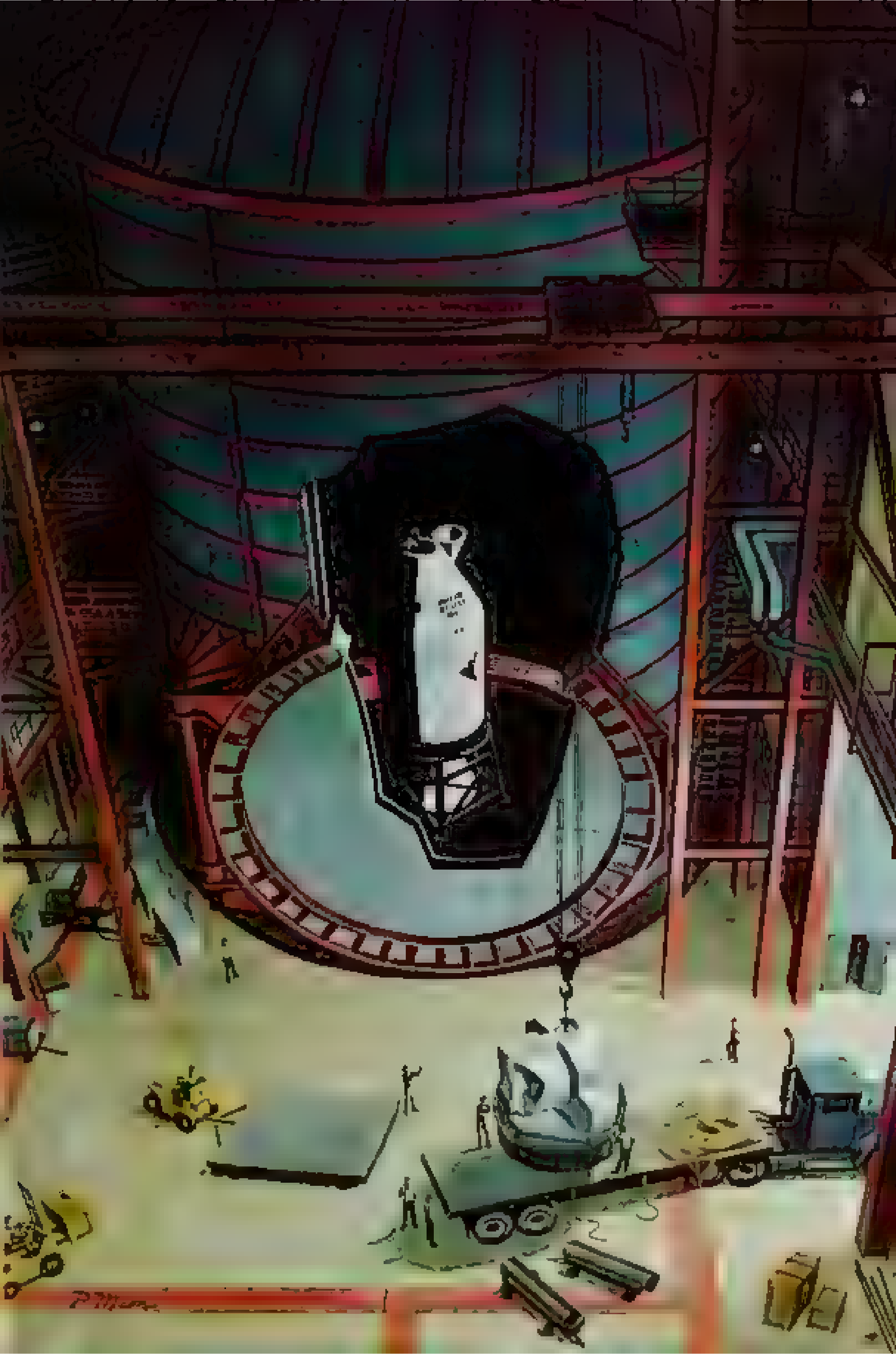
But these stationary simulators have one thing in common. If you make a mistake, you can smash into anything. You merely press the button marked "Reset" and start over.

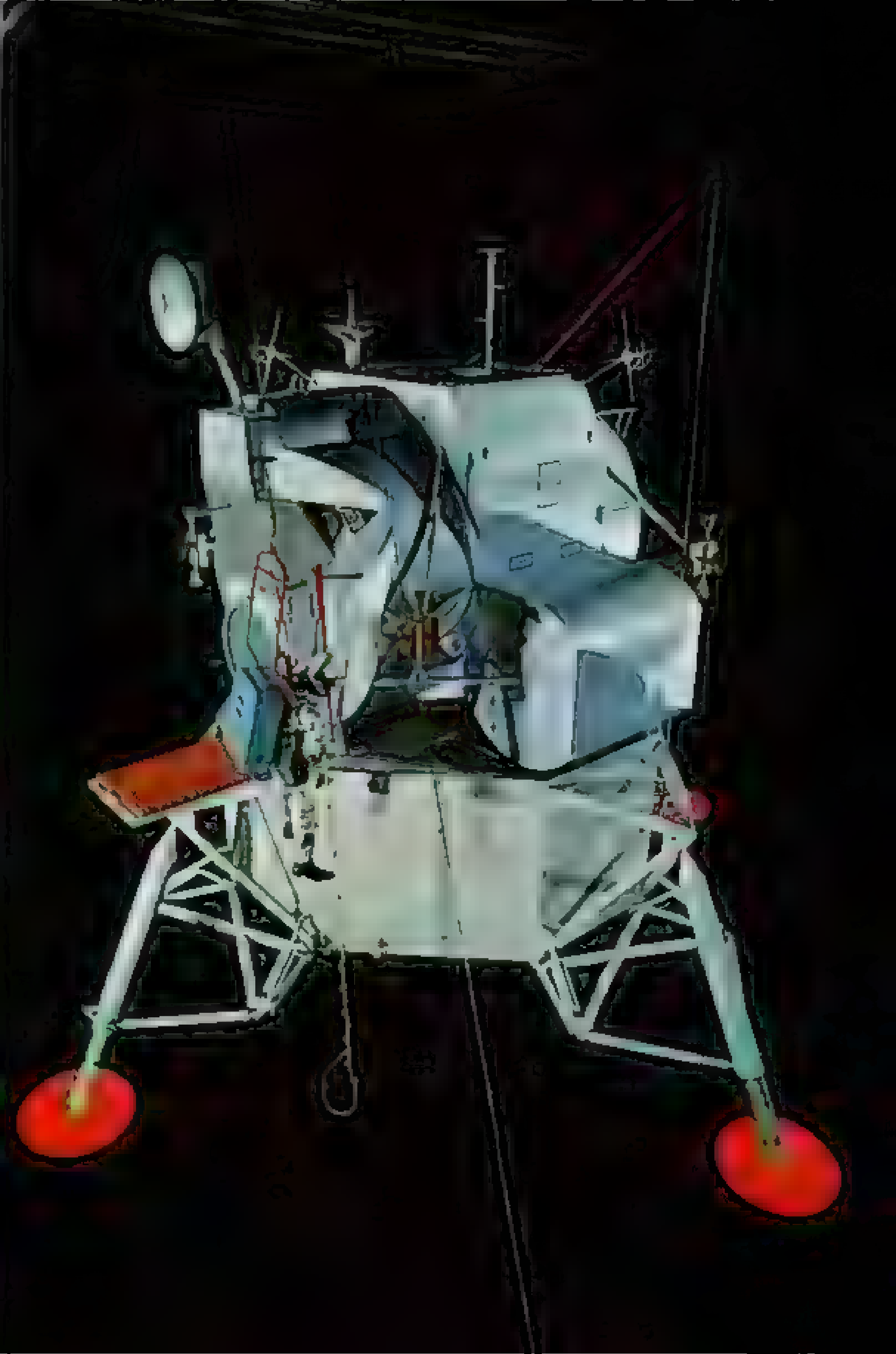
For many docking tasks, we use simulators that move like the spacecraft themselves. One of these "moving base" trainers, the Translation and Docking Simulator is here in the center. It occupies a gymnasium-size building painted black inside to suggest the darkness of space.

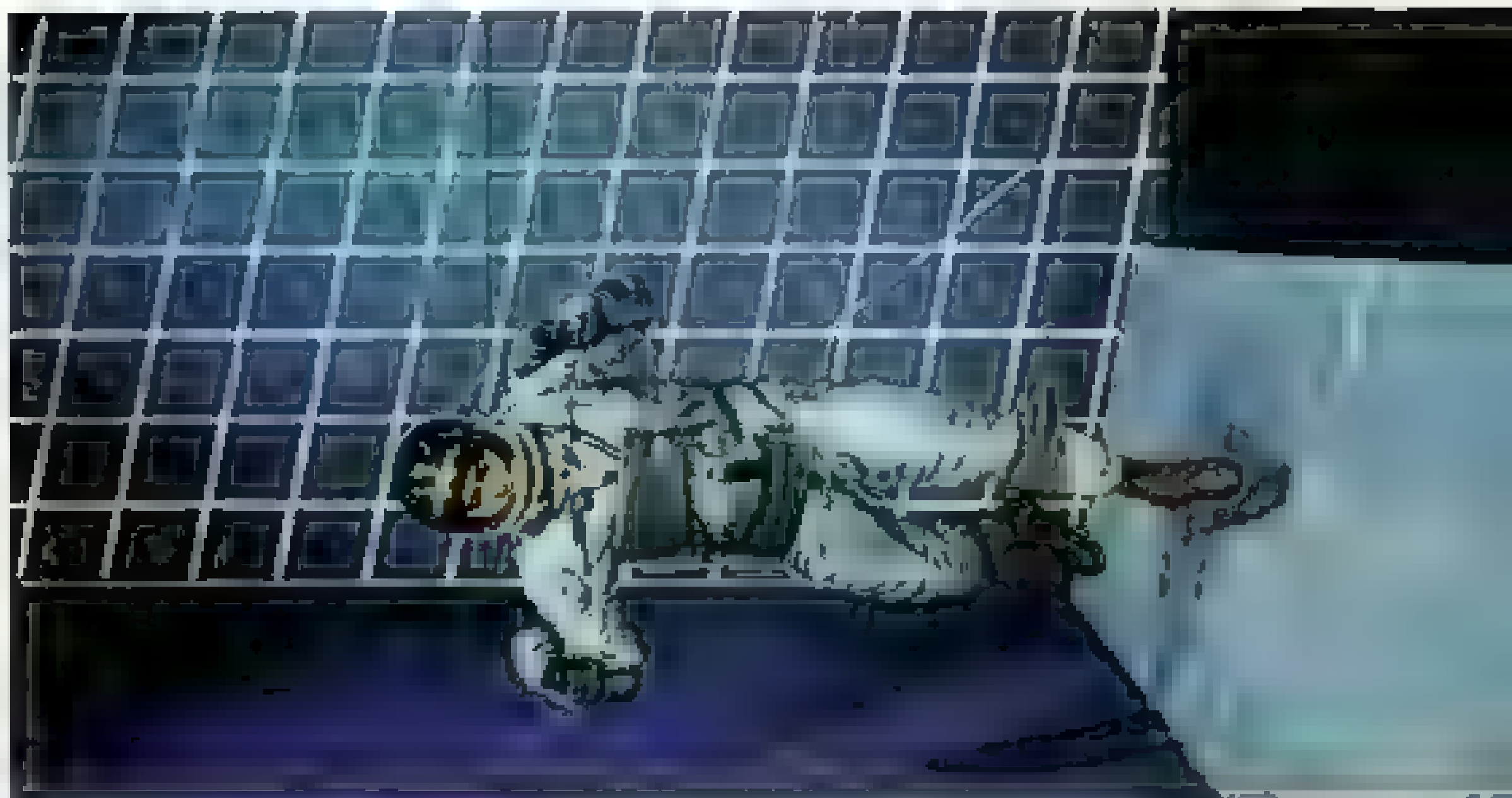
Now, with Captain Walter M. Schirra, Jr. at the controls, Gemini nods, turns, and rolls. From within the cabin, Woody peers at the rocky Agena, suspended at the far end of the darkened chamber and half lit by a shower of artificial sunlight.

Words charges. Apollo 11's first mission. Apollo 11's first mission. Apollo 11's first mission.

Now, bearing construction at the Manned Spacecraft Center near Houston, Texas, the structure stands 40 feet tall. In this artist's view, cutaway of the depressurized, vacuum-sealed Apollo 11 Command Module that will orbit the moon. We have a close-up of one of the three-man crew peering out. Controlled temperature within the chamber approximates those of the moon's hostile environment. The spacecraft must withstand temperatures ranging from 250° below the dark side, white-hot under direct baking at 250° above. The Apollo 11 mission will be a star. The Apollo 11 mission will be a star. The Apollo 11 mission will be a star.





[illegible]

1. *Grassroots movements and the state* 131

Figure 1. Mean (SD) age of onset of symptoms (years) by sex and age group.



Starting the king maneuver." We've got to get the propulsion handle. A low hiss issues from the simulator. But rather than the lightning now, it's a steady hum. And flight the Agena is over. With gathering momentum, Agena rushes silently toward the Gemini, idles on castor oil's powers of air.

"Doesn't it do too much?" We'd been at a gun's mark on the control board. Then, he maneuvres the large silver tube with the kern—sensitized light. There is a light hum as the vehicles come together.

It answers remarks one of—old reform—All remarks go in orders the first nose of the Gemini to the basket-like adapter ring on the Agena.

### "Daddy Longlegs" Teaches Lunar Landings

After mastering the simulator base trainers, the astronaut takes the simulator on a simulator the first time.

The NASA Flight Research Center at Edwards Air Force Base, California, the astronaut is practicing maneuvers on the LRV—Lunar Landing Research Vehicle. This jet-powered "daddy longlegs" perfects the astronaut's LEM will on the ground.

A low-level jet engine is mounted in the center of the LRV. The jet engine is mounted in the center of the LRV. The jet engine is mounted in the center of the LRV.

The LRV is more than 100 feet. There is a small engine at the rear of the LRV. The engine is mounted in the center of the LRV. The engine is mounted in the center of the LRV.

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From this point down, the pilot takes on the mission of the LRV. The LRV is more than 100 feet. There is a small engine at the rear of the LRV. The engine is mounted in the center of the LRV. The engine is mounted in the center of the LRV.

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Project's purpose is to train astronauts in the use of the LRV. The LRV is more than 100 feet. There is a small engine at the rear of the LRV. The engine is mounted in the center of the LRV. The engine is mounted in the center of the LRV.

General simulator trains the astronaut in the use of the LRV. The LRV is more than 100 feet. There is a small engine at the rear of the LRV. The engine is mounted in the center of the LRV. The engine is mounted in the center of the LRV.







1. *Phragmites* (common reed) is a tall, grass-like plant that grows in wetlands. It is a native species and is often found in large, dense stands. It is a common sight in the marshes of the New York City area.

1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets.

1. *What is the main purpose of the study?*  
 2. *What are the research objectives?*  
 3. *What is the research methodology?*  
 4. *What are the results of the study?*  
 5. *What are the conclusions of the study?*

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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1. *Phragmites* (Common reed)

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Wang et al. / *Wang et al.* 1997

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1. *What is the main purpose of the study?*  
 2. *What are the research objectives?*  
 3. *What is the research methodology?*  
 4. *What are the results of the study?*  
 5. *What are the conclusions of the study?*  
 6. *What are the limitations of the study?*  
 7. *What are the implications of the study?*  
 8. *What are the future research directions?*  
 9. *What are the contributions of the study?*  
 10. *What are the key findings of the study?*

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3. *Conclusions*

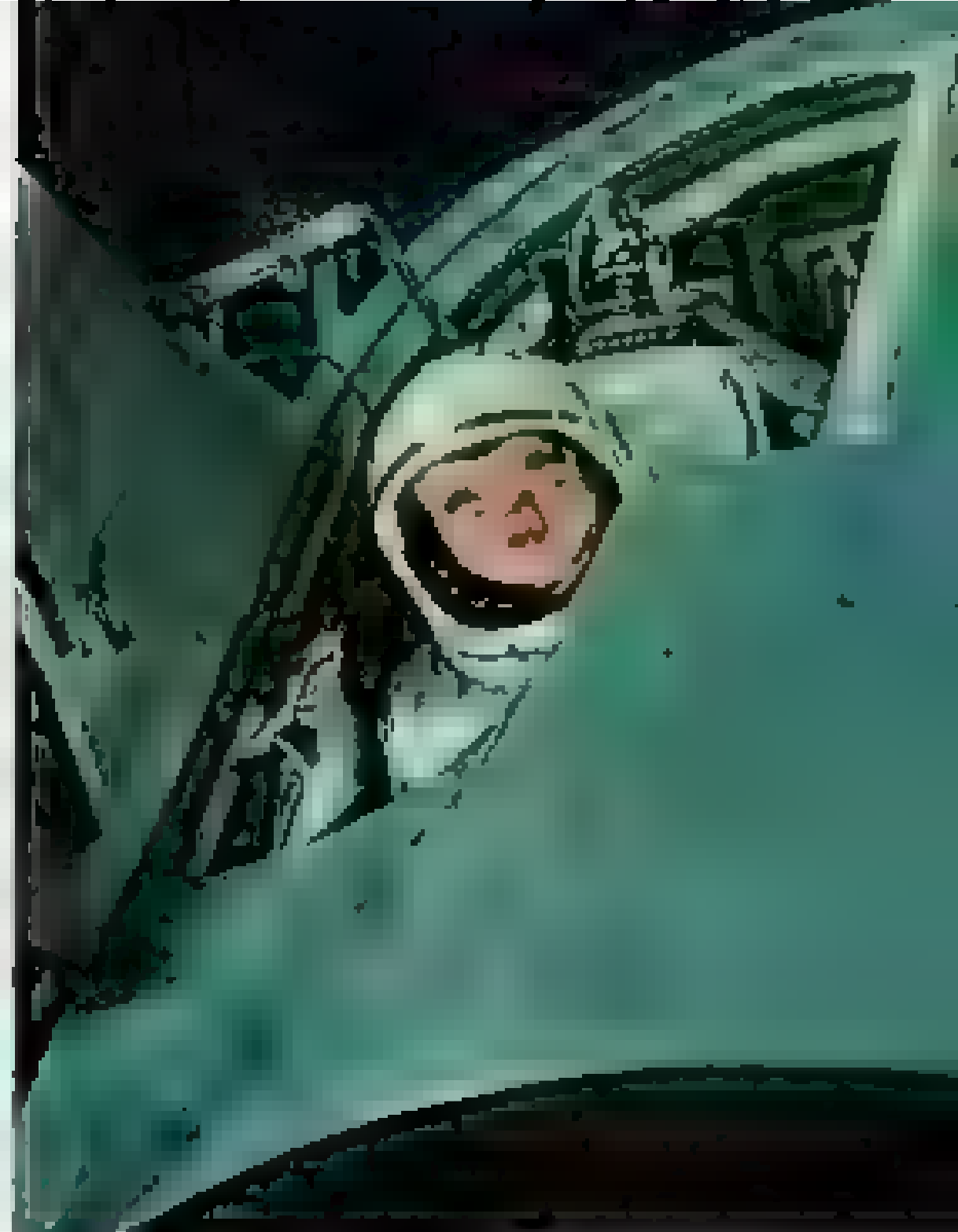
1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.

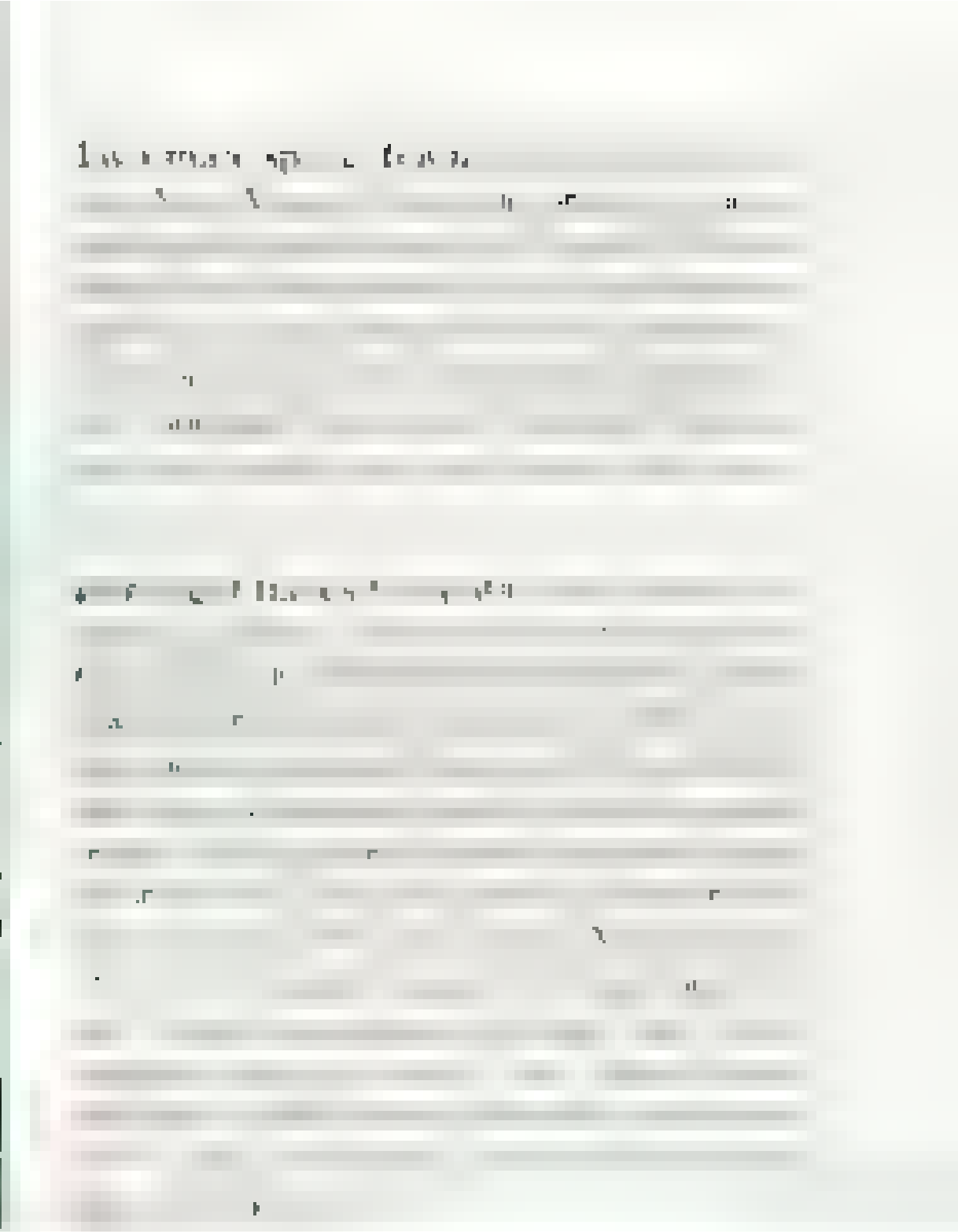
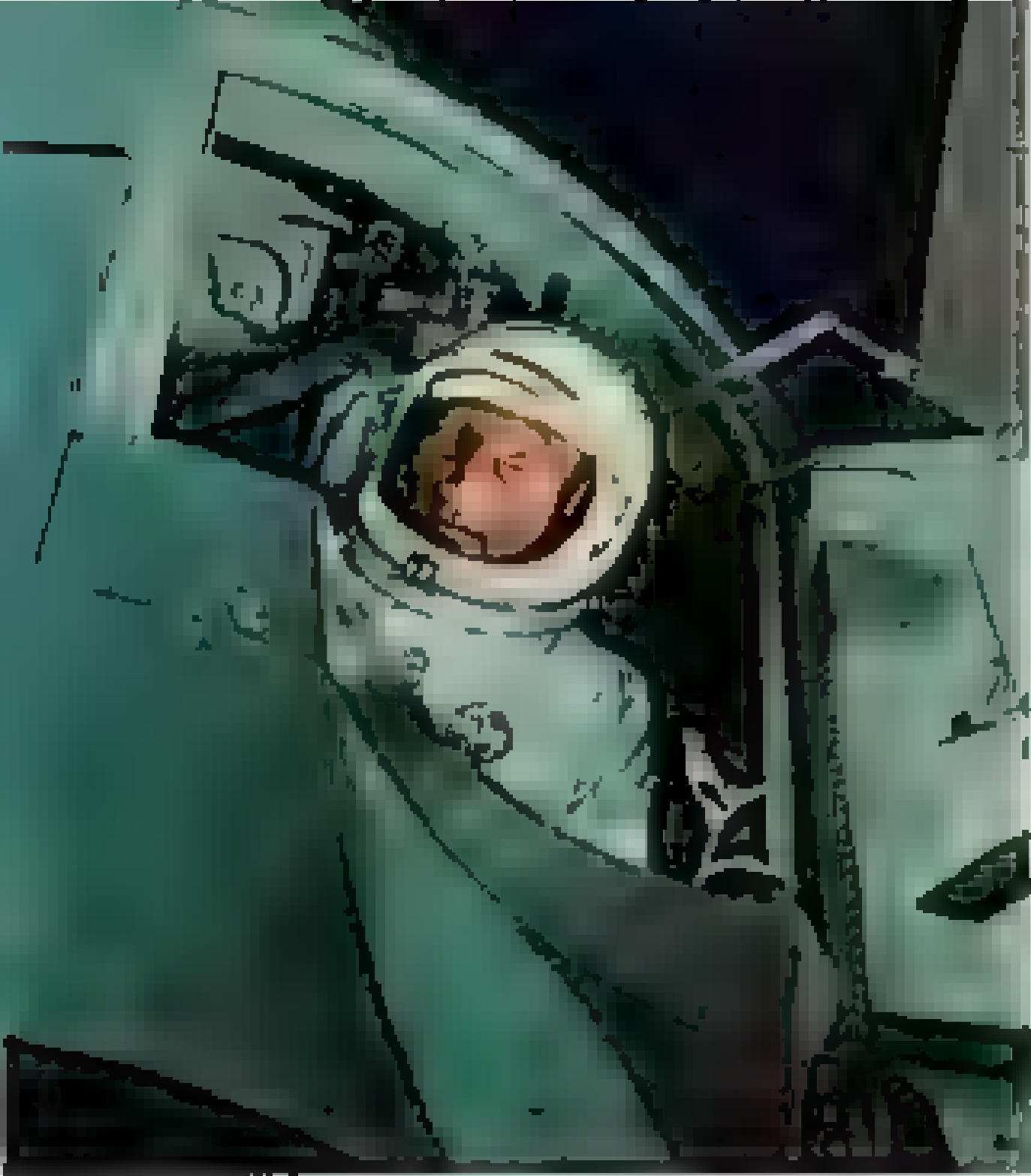
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 DEBORAH C. W. AND NEAL Vice Presidents and Assistant Treasurer  
 L. A. WOODS CHAIRMAN, Vice President for Research and Development

THOMAS M. HEPF, Vice President and Managing Director  
VERNON H. HARTWIG, WM J BELL, PATRICIA T. HENNINGSEN

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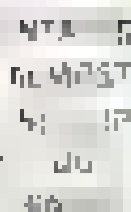
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1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in the context of public administration and financial management.

2. The second part of the document outlines the various methods and tools used to collect, store, and analyze data. It highlights the need for standardized procedures and the use of modern technology to ensure the reliability and integrity of the information collected.

3. The third part of the document focuses on the analysis and interpretation of the collected data. It discusses the importance of identifying trends, patterns, and anomalies, and how these insights can be used to inform decision-making and policy development.

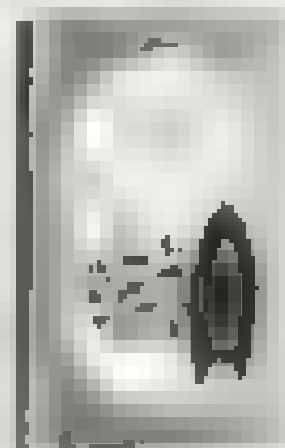
4. The fourth part of the document addresses the challenges and limitations of data collection and analysis. It acknowledges that while technology has advanced significantly, there are still many obstacles to overcome, such as data quality issues, privacy concerns, and the need for skilled personnel to manage the data effectively.

5. The fifth part of the document provides a summary of the key findings and conclusions. It reiterates the importance of a robust data management system and the need for continuous improvement in data collection and analysis practices.

6. The final part of the document offers recommendations for future research and implementation. It suggests that further exploration into the use of artificial intelligence and machine learning could enhance the capabilities of data analysis, and that training programs should be developed to build the capacity of staff in data management.

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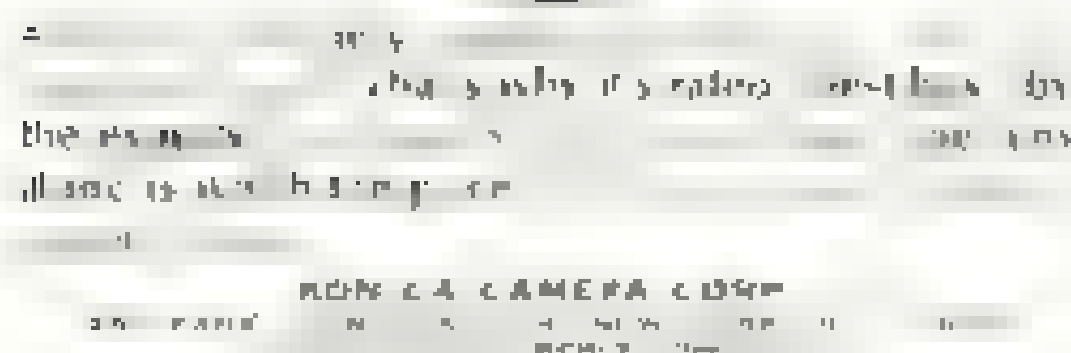
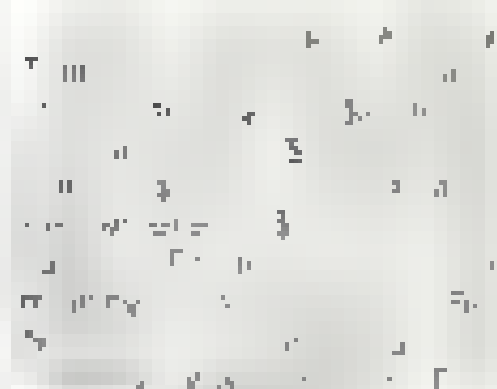
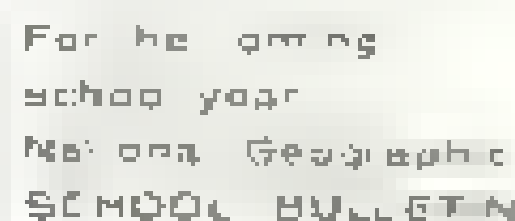
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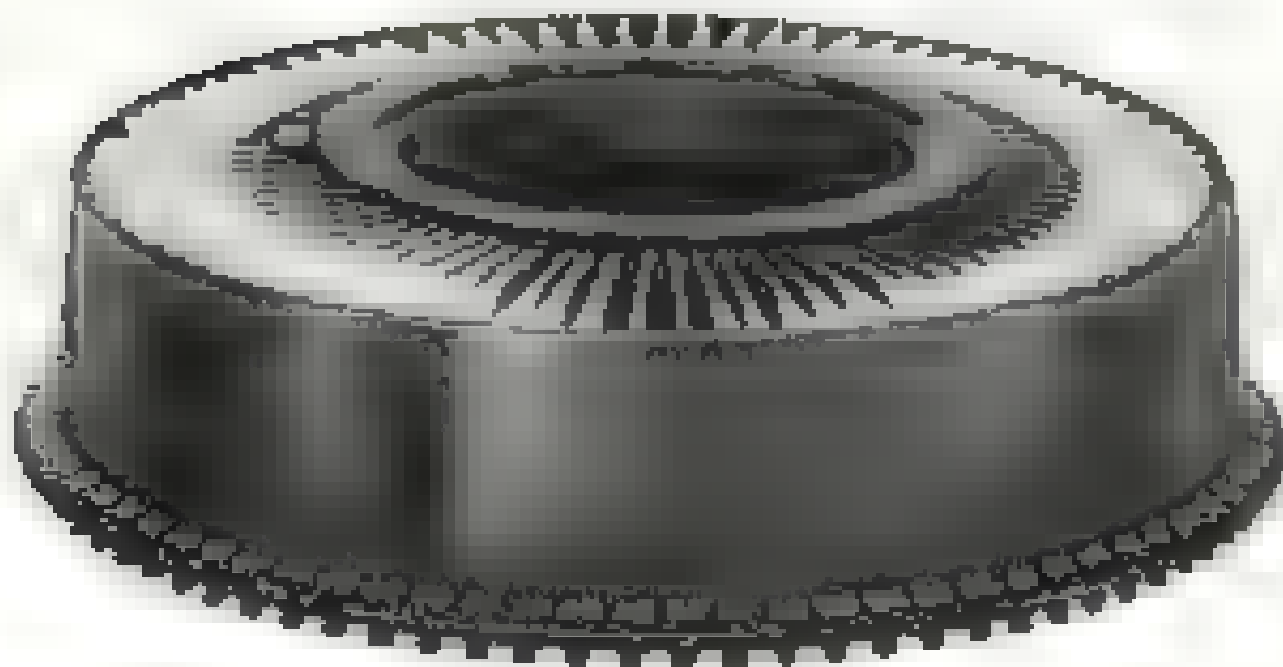
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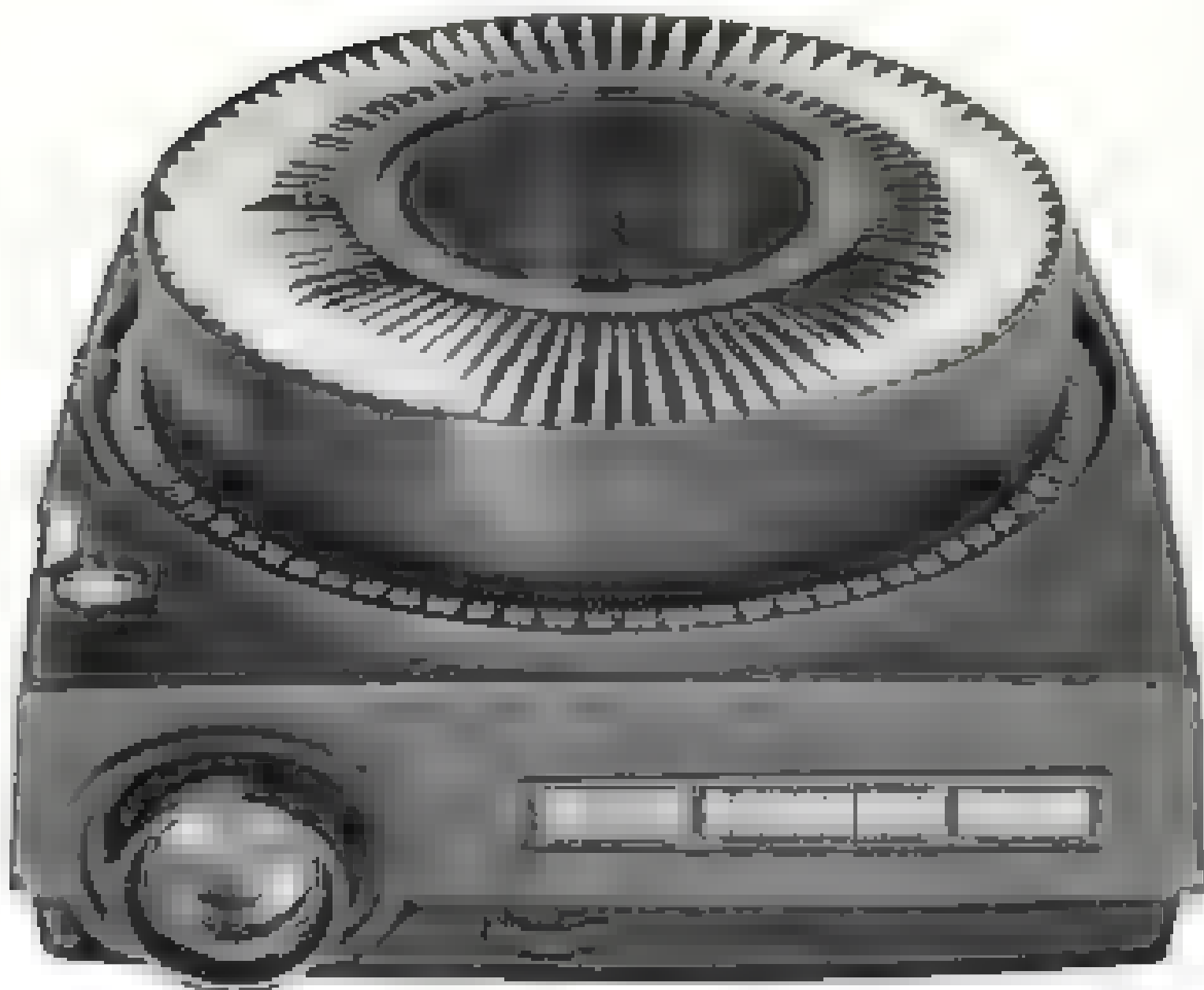
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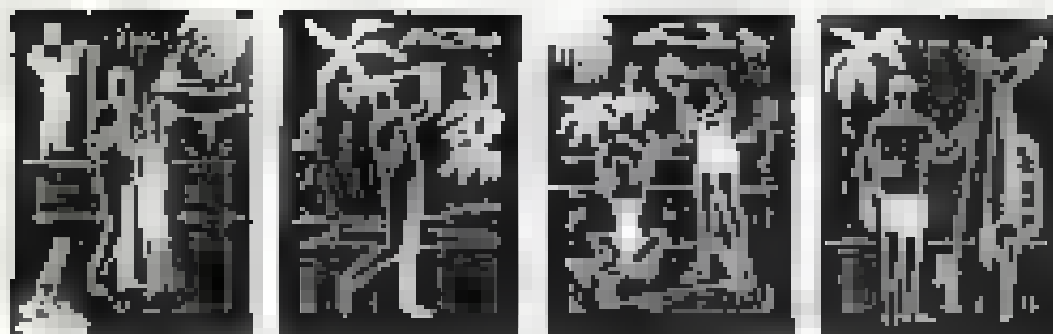
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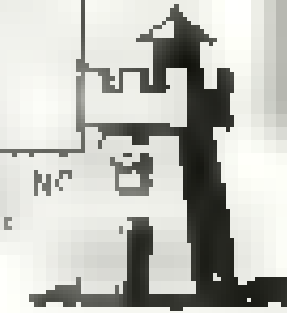
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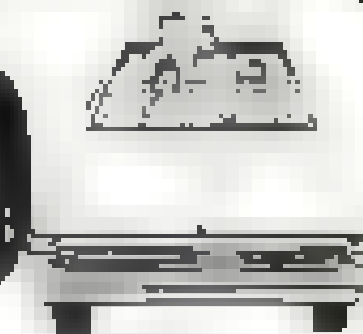
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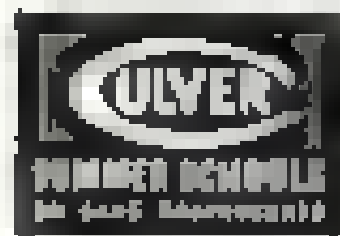
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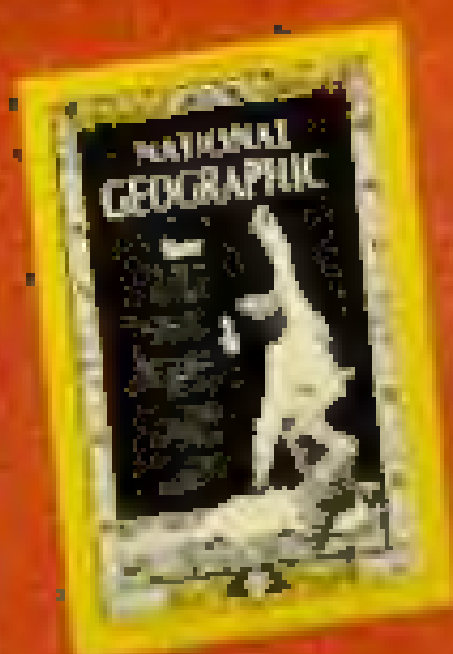
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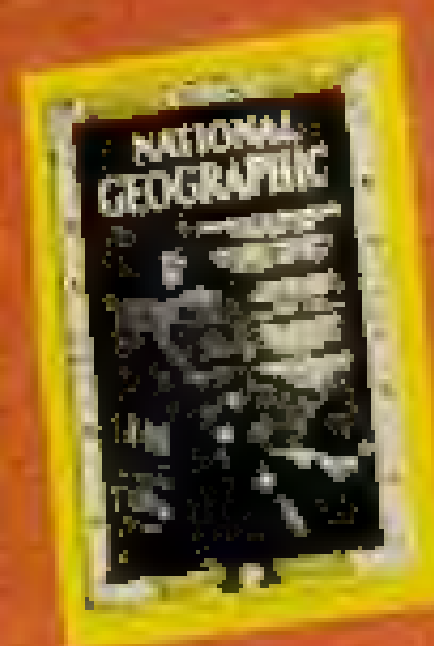
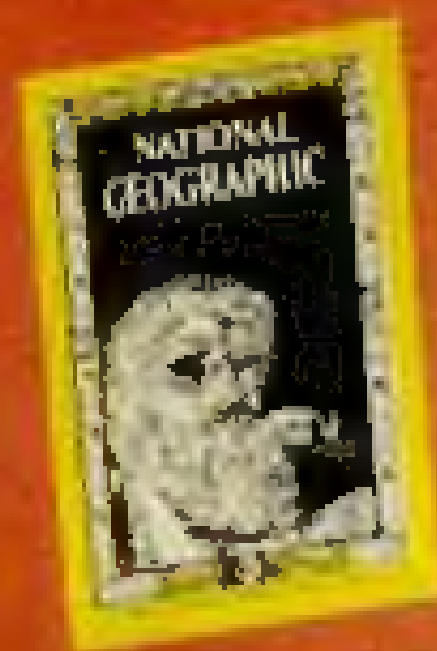






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